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<120> 90 Human Secreted Proteins
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<140> Unassigned
<141> 1999-02-04

<150> PCT/US98/16235
<151> 1998-08-04

<150> 60/055,386
<151> 1997-08-05

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<170> PatentIn Ver. 2.0

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007469-00101

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 <212> DNA
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 <213> Homo sapiens

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09774639-1060404

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 <223> n equals a,t,g, or c.

<220>
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 <223> n equals a,t,g, or c

<400> 23

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gagggangga	gctggtaggg	gagatgctgg	gctttacctt	agtctcgaaa	caaggnggca	360
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aatagaccag	cctgcaaraa	aracatgtgt	tttgatgaca	ggcagtgtgg	cggggtggaa	480
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tctgtcttaa	cagtagcgtg	gcacacagaa	ggcactcagt	aaatacttgt	tgaataaatg	840
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<210> 24
 <211> 711
 <212> DNA
 <213> Homo sapiens

<400> 24

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tgaactcctg	ggcttgagca	accctcctgg	cacaatctcc	ttgaatgatg	ggtcccaaga	180
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agttgtattc	aaaattccat	atcacaactt	actaactaca	tgacctagag	tatgttcttt	600
cacctcacag	aggcaggagc	attgtgagga	ttaaagcgcc	tagccaggaa	taggccatag	660
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<210> 25
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

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aaatcgccat	tccaagaga	catgtggatc	tgacatcgtg	ttttattctt	gactgagcct	1860
cgayattttg	ttctgtgtgg	aacaaaggca	aaggcagccc	aagaaccggg	gtccttgcc	1920
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<210> 27
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<400> 27						60
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aggtagattt	acctcattgt	gtatataatg	tttaatat	gtcagagcat	tctccagggt	240
tgcagtttta	tttctataaa	gtatgggtat	tatgttgctc	agttactcaa	atggtactgt	300
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tgtgcaggat	tcttttaggt	ttatcagtg	aatctctgcc	ttttaagata	tgtacagaaa	420
atgtccatat	aaatttccat	tgaagtcgaa	tgatactgag	aagcctgtaa	agaggagaaa	480
aaaacataag	ctgtgtttcc	ccataagttt	ttttaaattg	tatatgttat	ttgtagtaat	540
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<220>
<221> SITE

<222> (1121)

<223> n equals a,t,g, or c

<400> 29

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ctgtttcttca	cccagctcca	ggtggggctg	atccagcagt	ggatgggtccc	caccatccag	180
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ctgaatggcg	tggctgagct	catgcagttt	ggagaccggg	agttctaccg	ggactgggtg	360
aactccgagt	ctgtcaccta	cttctggcag	aactggaaca	tccttggtgca	caagtgggtg	420
atcagggtag	tgggggtgtg	gtgtgtgtga	tgtggaacat	ggctgtgaac	ctgaaccgct	480
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<210> 30

<211> 778

<212> DNA

<213> Homo sapiens

<400> 30

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gcttatgtgc	ccctgagctg	ccgaatcatt	gagcaggtgc	tagagcggcg	astggcaggg	180
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ggaagaggca	tccttttgct	aatcctgttt	gaatgtcatt	gtaaataaag	cctctgctct	720
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<210> 31

<211> 2476

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> SITE

09774639 020404

<222> (2227)

<223> n equals a,t,g, or c

<400> 31

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aatggacatg	atggatccac	ggatgtacag	cagagagcca	ggagggtccaa	cygccgtaga	300
caggaaggaa	ttaaaattgt	cctggaagac	atctttactt	tatggagaca	ggtggaaacc	360
aaagttcgag	ctaaaatccg	taagatgaag	gtgacaacaa	aagtcaaccg	tcatgacaaa	420
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gagcacggag	aaaaggagag	gcaggtgtca	gaggcagagg	aaaatgggaa	attggatatg	540
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aggactacta	cagatgcaaa	atcaccctt	ctgcaagaaa	gcctctttgc	aaccgggtaa	660
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tctccctacg	gctctgtgct	caagccctgc	agagggagat	ggcagagagg	aaggctgcct	780
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aaaaaaaaa	actcga					2476

<210> 32

<211> 691

<212> DNA

<213> Homo sapiens

<400> 32

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tgaaacagta	taaaaaacaag	atctttacat	taagagattc	tacatttttc	tgtttacttc	180
ttgaatatgt	tcctaattcta	ttttatat	gaacatat	tggttgatttc	tgctaataga	240

aagttaccaa	aaacttagaa	ataagacaaa	tttatcattg	catgttttcc	tttttcatac	300
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<210> 33
 <211> 700
 <212> DNA
 <213> Homo sapiens

<400> 33						
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ctttgtaaaa	atcaccactt	aaagtttggt	tctaaagatt	ttaggacacc	aagatgcaaa	180
taatattttt	ggctgttacc	tgctctttca	ctactgctga	gtctgcagtg	gcaagatagc	240
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gaaaatttaa	aatgtctttt	tgcaaaaaga	taccataagc	agtcaaaaaca	caattaaaaa	360
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caggagatgg	aggttgcggt	gagccaagat	cacgccactg	cactccagcc	tggtgatag	660
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<210> 34
 <211> 1722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (413)
 <223> n equals a,t,g, or c

<400> 34						
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<210> 35

<211> 878

<212> DNA

<213> Homo sapiens

<400> 35

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<210> 36

<211> 954

<212> DNA

<213> Homo sapiens

<400> 36

gaattcggca	cgagaggaag	agcgccagag	cctgctgccc	attaacagtg	gcacagagga	60
ggggccaggc	acttcccaca	ccgagggcag	ggcctggcca	ctccccagct	ccagtcgccc	120
ccagcgcacc	ccaagaggat	gggggtttac	cacctgcacc	gcaaggacag	cctgacccag	180
gcccaggagc	agggcaacct	gctcaactag	ggccccctgt	ggccttcccg	ccattgctgc	240
accaggactg	caaggagtcc	ccacaccttg	gcagctcagg	gtccccagct	caagcccttg	300
acctctcttc	tatccagacc	cgcacagctg	tttctgtgtg	ggatgggggc	agggtgtggg	360
ccatgccagg	cctgtcagct	gcgttgactg	actgcagcag	cttgccctcat	ggttttccct	420
ttttcttaga	atattttatc	ttcagaggta	acatgcagtt	gggtctcaag	acctttctct	480
caatcagccc	aacccagccc	agactgggct	tttctgggga	gctgaggagt	ttatcagtat	540
tcattcttcca	tcttttcata	gtcacaagtt	ttgttatttt	gttttttttt	gggggtgatg	600

gtgtaattgt	taacctcatt	tcggtttcct	acctgtttgc	ttccccccc	agtctccgc	660
atgagctgtt	gccctccagg	ggcctggcac	agctggcctt	ggggacgagg	gagaggactg	720
attcagggcc	ccctcagctg	tctctccct	ccctctggaa	aggaggggtg	ggctcagggg	780
cctcaagctg	ggctctgtgt	gaggcctggc	ccccactccc	aaccttggct	ctagactgtt	840
actcttaagc	tttgagaaat	tttcacattg	atgactattt	taaaatcaaa	taaaactatt	900
ttactggtaa	aaaaaaaaaa	aaaaaactcg	agggggggccc	gtaccaaatc	gcct	954

<210> 37
 <211> 793
 <212> DNA
 <213> Homo sapiens

<400> 37						
ggcagcagat	tttcttcatg	cagtattctc	agattggaaa	catgcttcat	gtttcttata	60
aataaccctc	aattatgagg	gcgtactttt	cactttgaag	aaaattgact	tgcattaaag	120
tggctaacaa	ttctttcctg	ggcaggatgt	aaaattttcc	tctcctctaa	taccagtact	180
gttgagctca	cattctccca	cttttctctc	tttcaggtgg	ttcacgtatt	tgggatttta	240
tgaaacctca	gaagcagaca	tgttaacttt	tcttatcttt	ttattccctg	aggtagtctt	300
ggggctctta	agagattaca	gttcttaaaa	cctggaaagt	gacaccagag	aggtagatct	360
tagttcccaa	aattaaagtt	actttctagg	gcataaaacc	ttttcagaat	tcagattaaa	420
ttttatttat	tttttctttt	ttctgtaacc	ttatatttga	ggggaaaatt	ttattttcaa	480
cttttgcata	tatctaattt	aacatttggt	aaaactgtaa	atggggccaa	gtttctccct	540
ttatatgatt	ttccagattt	ttaccacttt	cttagtgcca	cttgatgcta	ggcattgtct	600
attggagact	cactggtacg	taactgcagg	ttttaccatg	gaaccacata	tacacatgtc	660
ttggaattga	gggttagggg	ttccagaagg	acttagttgt	cctgtgcttt	tgtctgcccc	720
atgccaaaga	ccactaagaa	cagttttgta	agtgaaactt	gggtctacac	gttaaaaaaa	780
aaaaaaaaaa	aaa					793

<210> 38
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (42)
 <223> n equals a,t,g, or c

<400> 38						
ccntgattnc	gccaagctcg	aaattacccc	tcacnaaggg	ancaaaaagct	ggagctccac	60
gcggtggcgg	ccgctctaga	actagtggat	ccccggggct	gcaggaattc	ggcacgasca	120

0974639-020101

cacttgtacg	ctgtaacctc	atctacttct	gatgttttta	aaaaatgact	tttaacaagg	180
agagggaaaa	gaaacccact	aaattttgc	ttgtttccct	gaagaatgtg	gcaacactgt	240
tttgtgattt	tattttgtgca	ggatcatgcac	acagttttga	taaagggcag	taacaagtat	300
tggggccctat	tttttttttt	tccacaaggc	attctctaaa	gctatgtgaa	attttctctg	360
cacctctgta	cagagaatac	acctgccctt	gtatatccct	ttttcccttc	ccctccctcc	420
cagtggtact	tctactaaat	tgttgtcttg	ttttttatct	tttaaataaa	ctgacaaatg	480
acaaaaaaaa	aaaaaaaaaa	aactcgaggg	ggggcccggt	acccaattcg	ccctatagtg	540
agtcgtatta	caattcact					559

<210> 39
 <211> 1263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1091)
 <223> n equals a,t,g, or c

<400> 39						
ggccgcccctt	tttttttttt	ttttttttta	aaacaaaaca	ggtttttaatg	gttaaaacag	60
atgaattaat	aggtttataa	taaccattaa	ctaagggaag	ccctagaaca	agaaataagg	120
attttttaatt	gcatgcaaaa	cctagttacc	ataaaaacca	atgcaatacc	aaaatatctc	180
agcttccctag	catagactcc	aggtcttttc	atttccaata	cttggcagtc	ataatatgta	240
cactttcata	tgcacctggt	tgtggaggga	taagctcatt	cacataggac	tacaaatata	300
tctcacaggt	aggagggcac	aaaagaacaa	tatcttccct	cacttttttg	ggtccatctt	360
gaaaaacaaa	aaaggcactc	ccaaagggtt	cttggttaaca	cccttggttag	gtttcttaat	420
tactaacata	atctttacat	gtaagggtta	tgggtccactc	atttcataga	tctgggaacc	480
atcaggcatt	ggaactgcct	ttaactcaca	tgccaaacaa	ctggctttct	taaacaatga	540
caaaaactgt	atacttggtt	taaaaacatt	tgggctttgt	ttccykgaca	acttatatat	600
gcttaatcac	tggacttttg	catgcagagc	caaacatata	atggaactga	aagaaccaca	660
atatgacatg	gtgacagaag	actctttgaa	tcattattct	gttttccact	atcagctgct	720
ccagctccct	tatactaata	caactttgtc	cctcagagca	cccatgctct	gaacctagggt	780
ttaatctctc	tgtgaaaga	tttattaaag	atacttagat	aaattacca	gtctttctct	840
acgatcatca	aagagtaagg	gaagtcaaat	gctcatgggc	agttgtccac	tattcacaga	900
atcttttagaa	actatttgcc	tgaggccaag	gagaatttgc	tttatcacta	aatctgaccc	960
atgttgagcc	atactaaaac	tgcacttggg	tactagtctc	aaatcaaatt	gagcttatgt	1020
attgctctac	atttattgca	tcccatgctg	tgtgcaattt	ctgatgctga	ataagagaaa	1080
tacggcaatt	naaaggcttc	accacaagcg	tcacattcca	tgggtttcct	tgggttttca	1140
cctctgcatg	gatctctgta	tgggtgacaa	gatgcgctgt	tgaactgaaac	ttttgtcgca	1200
cttctcacac	ttataagggt	tctctcctgt	gtgtattctc	tgatgctgaa	taagaccgga	1260
ggt						1263

<210> 40
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

<400> 40						
ggaattnccg	gggtcgaccc	acgcgtccgc	ccacgcgtcc	gcccacgcgt	ccgcaaatat	60
attggcagga	gattatccag	aacatctagg	tgcaggtaaa	cagtttctaag	tccaagaagt	120

tatggaggga	ttgatgctac	cactttctaag	tgttatttat	tctgaaggaa	ctgtatggga	180
ggagatcatt	gtttctggaa	gacagtacta	ttagttatat	agatggttct	ttctggttct	240
gaatgactaa	tcagtcattc	agtcaataac	actgaccacc	tactatatgg	tagtcattgt	300
tctaggtatt	gagcatgtaa	tggtggaaga	taaatggcag	atgagaatcc	tgcatttaga	360
accttaagtc	tgattggatg	gcggaagaaa	tatagttgat	aagcataatt	ttaggtagt	420
attcattttcc	aaaaaaaaaa	aaaaaaaggg	cggcc			455

<210> 41
 <211> 1128
 <212> DNA
 <213> Homo sapiens

<400> 41						60
ttacaaatga	ttactacagg	aatagtgggc	acttaatgtc	agttactccg	gtggaagaat	120
ttatctagtt	tttttttttt	tcttttttgg	aaggatggty	tgaaaaatag	caagattaga	180
gaatgagttg	tatagttttt	tctatcacat	ttcatctaaa	atgatttgaa	ggacttttga	240
agattttttac	caacatcctt	aaatcaactc	caggttggtg	gaacaactga	tttaaaacaa	300
actaagagaa	cattaactag	atgtgggctt	tttaaaat	ataggtattg	catttcctac	360
cttggtattt	attccacttt	gaatacttta	gagggcttaa	ctttcaactc	tttaaggtag	420
taatggatag	ttttatactt	gttctcacia	aattgttatg	gtcagtttat	atcattgctc	480
catgcattga	ttataaaaaa	tcagtattaa	ttttttctga	tcttataagc	tttataggag	540
ttttcttttc	tcttataaag	tgtttcacct	tatgtaaaac	aaatgcctgc	ttgcatattg	600
gaagatgttg	aaattagttt	tagacaaaag	tggtccatca	attcagacac	tctgcttgga	660
tgccttacc	ttttcattag	tgcatctctt	gcttctgaaa	cttggcagaa	actcgttagc	720
cagtccactg	cctttctgac	aatgtgtgga	gtcacgtatg	cttgggtatat	gcctttacta	780
ctttttaaagt	tctacagttt	attacttgcc	caagtgttac	taaatccttt	tcttatgtgt	840
actggatgga	gaaaaaatta	tagccagcac	tttgagagga	aagttttcag	aaacaatatt	900
aactggcact	actaactgaa	ggccacagga	gatgctatca	atgttatattg	taatctgaag	960
attgaacaag	gctgtgaggg	tcattttcaa	ctatttttgag	gtgttaaaat	atatatatgc	1020
tgttttctcag	ctgtttccact	caaaccgtgt	taggactctc	aaaggtaaaa	tgtcacaggg	1080
gcttttccagt	tgttacagag	ctcagcagct	gtggttgccc	ctgttctaca	ccaatttccag	1128
ttcaataaaa	atgttaactt	tgcaaaaaaa	aaagaaaaaa	ggcgggcc		

<210> 42
 <211> 648
 <212> DNA
 <213> Homo sapiens

<400> 42						60
gaattcggca	cgaggcaata	tttgccctcac	ccaacaccac	aaagattttc	ttctgttttc	120
ttctagaact	tttttagttt	taggggtttat	atttaggtct	gtgatccatt	ttgaatcaat	180
attagcatat	gaggcaaagt	ggagatcgaa	gtttttat	ttccttatga	ataccagtt	240
gttccaacac	cacttattaa	aaacactata	ctttatccac	tgagtttggt	ttgtaccttc	300
atcaaaaacc	agttttcaat	atatctgtgg	attaaatttt	ttatttttat	gtttattttt	360
agagacggtc	tcactatgtt	ttccaggctg	gtctcaaact	cttgtcctca	agtgatcctc	420
ccatcttggc	ctcctgagtc	gctgggagga	tcaggcagga	ggatttcttg	agcctggggag	480
gttgaggctg	cagtgagccg	agattgctcc	actgcacttc	agcccgggca	atagagtgag	540
atcctatctc	aaagaaaaaa	agagttattg	tgttatatct	tttttaaatcc	attttctttt	600
aaccctttat	atccttatat	ttaaactaga	gtttctgtca	agtgcactcc	agcctggtga	648
caaagcaaga	ctccgcctca	aacacaaaaa	aaaaaaaaaa	aaactcga		

<210> 43
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 43
 tcgagttttt tttttttttt tttttgagac tgaatttcac tcttggtgcc caggctggag 60
 tgtaatgggtg caatctcggc ctgggcgaca gagcgagact ccgtctcaaa aaaaaataaa 120
 taaataaaaat aaaattaaat taaaaaaaaa aaaaaaaagt ctgctttgaa aaccagtatc 180
 catagacttc tggcagtcac ttctgggggtt taattttgga tgtgacaaag gtttggtttcc 240
 actggactta attttttcac atcgctctaa cttttgaaaa cacagataca gtccttttgc 300
 tgaataaaaat gaaaactcga gcctaaattt aaaggcatag atatttcctg gacttcagg 360
 acagtaatat catgtactac tttgtcaaaa aaattttctg gaggtttttc tagaggaaga 420
 aactaagata acaacaacaa aaaagacaaa tccaaatgca ttacttgaag agcgactact 480
 catgttttcta gagaattttt tggtcatact atgtcatggg gttatttcct gggggcttca 540
 gttctgcttc agaattttct tagtagttat ctactgaccc catctggtaa aattatagag 600
 gaagttacag tcgtaaagc ttctgtcaac tcgatttcta aaaattttat gtaaagagat 660
 attttaagag aaataagaaa ataggagatc agggcaaatg aatctaaaga tcttttagctt 720
 tactcgtgcc gaattc 736

<210> 44
 <211> 600
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (549)
 <223> n equals a,t,g, or c

<400> 44
 gggtcgaccc acgcgtccgc caaatcccag tctttaccat ttcatatcag gatcggtgtg 60
 tgaggggaata acttggtttt ctgtcctcag tttttctcaa tttcaatcca tcttataaat 120
 cccagcaaaa ttaatttttc taaagacact tttagaattt ctgcaatagc tccttgagat 180
 caggatgccca gggatattca ttctgttcac gacactagct agcacatttg atcagcgctt 240
 gttaaaacgat tctcaaccca aagatcactc ctagggaaaa aagtctccaa tggcttcccg 300
 ttgccttcat ggtattaaac ctgcaatttc agagctcgat atttaaattt tttagggggc 360
 tgggaatttct cataatactc cttggctatc tactaaacac taagtactag gcatacagaa 420
 ataacagata cacttggggc aggcacgggtg gctcacgcct gtaatcctaa cactttggga 480
 ggccaagggtg ggtggatcgc atgagctcaa gagttcaaga ctagcccagg caacaaagga 540
 tcctgtntnt acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggcggcc 600

<210> 45
 <211> 687
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> n equals a,t,g, or c

<400> 45
 aattcggcac gagaaaaaat aaaaaaaata agccagggtgt ggtgggtgggc acctgtnatc 60
 tcagctacgt gggaggctga ggcaggagaa tctyttgaac ctaggaggca gaggttgcag 120

tgagccaaga	ttgtscacgc	ctgggcgaca	ggtgaggctc	ttgtctcaaa	aaaaaaagtc	180
cacatcttca	tgaaccctca	gactctggag	ttgggtgtcg	gcttttttag	ccagcttttg	240
tgggaattgc	ctttgaccta	ttaaagaagg	aaagtgggta	atggagtccc	agccactcaa	300
gagactggat	atcccccgag	aatggcttgg	gttaccagct	atggaccctt	ggaagatgaa	360
tctaatacctt	ctcactgggt	tttctttgca	aattcatttg	cttttatattt	tctaataaca	420
ataaactcta	ttttccatgt	tctcagggcc	cctgggtaga	cagacacagc	ttgatttcag	480
agcagacata	ggcgaagaaa	acatggcatt	gagtgtgctg	agtccagaca	aatgttatatt	540
atatacacat	ccaaatttga	agagaaaatg	tatttcttta	ggtttcaaac	actgtaatat	600
atataaagca	aaaataaaaa	cctgttgcaa	agttcaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaag	ggcgggcc				687

<210> 46
 <211> 697
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (394)
 <223> n equals a,t,g, or c

<400> 46						60
ggcgcgccctt	ttttttttttt	tttgataaaa	gaaaagattg	gtcttgtctc	tgtaaaactg	120
aggaacaatt	acttttagata	actgggtgtta	gttttcnctt	tctttcttga	cggaagcaaa	180
acagatatgg	gttctaccct	caagaagctt	tagatgaatc	agagatatag	acataaaaata	240
aagaactata	aaacaattca	ttacgcttat	gatagctgta	ataataaaaa	agtacagggg	300
acaataatat	catataacag	agggataaca	tcacacaggg	aacaacagta	tcacatagca	360
gggatataata	caaggatcct	aggtaacctg	gtctgggat	atacaaggat	cccgggtgac	420
ccggtctggc	tggttaagagg	tttccctgag	aaancgatca	gtgagagctg	agagagaagc	480
aggcagagca	agktgatggg	gcaggggtgg	ggagagagca	gaagcgtgac	ccaagagggg	540
cccaggccaa	aaccttttga	ctcagtgcac	ctgaaagaat	gcagaggggc	tgtgggtcaa	600
agctgcagct	ggaaaggtaa	gagggggccag	gcactgcagc	accatgtgga	tcacactata	660
aactttgaat	atcatcctaa	gagaaaatgg	aaaccaatta	tggattttta	aaaggaaata	697
ttttttatttc	catttttaacc	ggacgcgtgg	gtcgcacc			

<210> 47
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<400> 47

ntnctagcac	tcaggagtcc	aaaccattgc	ttttgggtta	gaatgcatga	agaacatgca	60
cgtctatctg	aactacaata	actttctgct	tartctactt	aggctaattg	tgaacatttg	120
ttcattcaca	caaccactgg	tggcagaaga	agagagacct	cttacaccac	tatagcatag	180
gagctgcaat	gtcacatgag	ttttaaaaga	tgctytttaa	agaaaaaaaa	aaacamgrag	240
sargaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaggg		286

<210> 48
 <211> 858
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (847)
 <223> n equals a,t,g, or c

<400> 48						60
ggccgcctt	ttttttttt	tttgataaat	acaaagatac	atgtaaagtt	ttacttacct	120
gattttaaaa	acaggctacc	aaaattttatc	caaatatatt	aaaaaatgag	actgttttaa	180
aaacctttcg	tttccatatt	gtgactccac	taagcgggta	aaaagtccag	gacagagatg	240
gaaaggaaaag	aaggaaacag	gaagaagtga	aactaggaag	gtgggtgccag	tggcacatgg	300
atgaagaaaag	agagatcatc	agccatggag	aattttgtaa	tgtaagtaga	gagagagatt	360
gggtaggaag	acaggcttca	cagtttgtaa	agtgtaaagg	aactacccat	cgtaccctgt	420
cattgactag	ggctgtgagt	tatgtagtcc	tgtctcctct	tgcaaaagac	ttaccacttc	480
tggcaagtga	ttaccactt	ctggcaactc	ttcatttctt	cttatccttg	aatattcatc	540
tacatcactc	taaacagcac	agccccagaa	gcatggaaaag	gggagttatt	agtatggaaa	600
ggggagttac	tcttctgggtg	tagtgggtccg	attgagtcca	tggcttccca	gccttaccag	660
agctgataaa	aatgtcaatt	cctttggggc	caatcttgct	cctccagtgt	gttttagccc	720
taatgaggtc	atgggttatt	ctagacttct	gagacttact	gtggctttga	attgacacaa	780
acactaat	tctgtcaaag	gctagagtga	tggatgttat	atgcctgcgg	acgcgtgggt	840
cgaccgcgga	attccggacc	ggtacctgca	ggcgtaccag	ctttccacta	tccgtgcgtc	858
agncgcnact	gtaacctt					

<210> 49
 <211> 1307
 <212> DNA
 <213> Homo sapiens

<400> 49						60
ggctgaccca	cgcgctccgga	gccgcgaggg	agaggccgcg	gccccttccc	gttgccctgcg	120
gccaccggcc	ggcattcaga	gcccctcgcc	tggcgctaaa	tttaaaaacg	taacacgagc	180
agcaggctgg	tctcggaac	gaaacgaaat	tcggctccctg	ggcctcctcc	cgggcgctgc	240
cggctccctca	gcgcgcgcg	ccaccggaa	cagacccttc	tcccgcatt	ttcggcgggg	300
ctgggagact	gaggcccgcg	gcgctgagcc	tgccggcgccc	cgggaagaggc	gggcggcatg	360
gccgctggcg	tggactgcgg	ggacgggggt	ggcgccccgc	agcacgtgtt	cctgggtttca	420
gaatatattaa	aagatgcttc	aaagaagatg	aaaaatgggc	taatgtttgt	aaaactgggt	480
aaccctgtt	caggagaagg	agccatttac	ttgttcaata	tgtgtctaca	gcagctgttt	540
gaagtaaaaag	ttttcaagga	aaaacaccat	tcttggttta	taaatcaatc	agttcaatca	600
ggaggtcttc	tccattttgc	cacacctgtg	gaccccttat	ttctgcttct	ccactacctc	660
ataaaggctg	ataaggagg	gaagtttcag	ccccttgatc	aagttgtggg	ggataacgtg	720
tttccaaatt	gcactcttgt	gctgaaactt	cctggacttg	agaagttact	tcactcatgtg	

acagaggaaa	aaggtaatcc	agaaatagac	aacaagaaat	attacaagta	cagcaaagag	780
aagacattaa	agtggctgga	aaaaaagggt	aatcaaactg	tggcagcatt	aaaaaccaat	840
aatgtgaatg	tcagttcccg	ggtacagtca	actgcatttt	tctctggtga	ccaagcttcc	900
actgacaagg	aagaggatta	tattcgttat	gcccattggtc	tgatatctga	ctacatccct	960
aaagaattaa	gtgatgactt	atctaaatac	ttaaagcttc	cagaaccttc	agcctcattg	1020
ccaaatacctc	catcaaagaa	aataaagtta	tcagatgagc	ctgtagaagc	aaaagaagat	1080
tacactaagt	ttaatactaa	agatttgaag	actgaaaaga	aaaatagcaa	aatgactgca	1140
gctcagaagg	ctttggctaa	agttgacaag	agtggaatga	aaagtattga	tacctttttt	1200
ggggtaaaaa	ataaaaaaaaa	aattggaaag	gtttgaaact	ttgaaaataa	aatctagcaa	1260
aaataaaaaa	aaaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggcggcc		1307

<210> 50
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (606)
 <223> n equals a,t,g, or c

<400> 50	
aaaaattgga	gacactgttt aacttctgtg catggactcc atcagcaket acaaagccay 60
tgggaggctg	aggatcactt gagcccagaa gtttgaggct gtagtaagct tcaaaggcca 120
ctgcactcta	gcttgggtga ggcaagaccc tttcaagcag taagctgcat gcttgcttgt 180
tgtgggtcatt	aaaaacccta gtttaggata acaggtctgc ctgcatttct tcaatcatga 240
attctgagtc	ctttgcttct ttaaaacttg ctccacacag tgtagtcaag ccgactctcc 300
atacctttta	aaggatatgac aggaactgtc ttcattgtct taccgaagca agtcatccat 360
ggataaaaaa	gttaccagga gcagaacat taagctgggtc caggcaagtt ggactccacc 420
atttcaactt	ccagctttct gtctaatagcc tgtgtgcca tggcttgagt taggcttgct 480
ctttaggact	tcagtagcta ttctcatcct tccttgggga cacaactgtc cataagggtgc 540
tatccagagc	cacactgcat ctgcacccag caccatacct cacaggagtc gactcctact 600
cttagn	606

<210> 51
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (22)
 <223> n equals a,t,g, or c

<400> 51	
gggcncccca	aaaattcccc cnrggttttt tttttttttt tttgttttca agaagaaaga 60
agcaatgcag	caaagtgggtg cagaacacag gagctggagc cattcagacc caagtccaac 120
tcttgacctc	gccacttttc tctacagtcc tgagcaatta cacctgcca gcaccttccc 180
aatggacaga	ctggcaggcc ctactcccaa caggcatcca gactgagcat caccaaggat 240
gggacaaaac	gaagcaatgc aagaggaaat gcgaacacga acatgcacca ctacaccaca 300
acctatggaa	acaatcaggc aaaacaagac taggagacat atgacaagaa aacaggcctg 360

gacgcttcaa	aaatgccaat	gtcacgaaag	acaaaaactg	ggcatgctct	tctggatcaa	420
aggagactaa	agagatataa	caaccaaaca	caataaaact	atcctagatt	acatcctgga	480
ttttttaaaa	gcaaaaaaga	acaatttggg	aacaactggg	gaaagtgtta	atgtggctac	540
attttaa						547

<210> 52
 <211> 865
 <212> DNA
 <213> Homo sapiens

<400> 52						
gctgaatata	aggaaatatg	tctaattggac	accagttaat	acttttttaa	actactcttt	60
aaaaaaaaaa	tacgttcccc	ttggtttaact	gatttttttaa	tccaggggtgg	acatttttttc	120
aaccttttatt	aaaaagacaa	ataaactatt	ttgtagaaga	tcagactcct	acttaactgg	180
aagagaaatg	tctattaaat	gtctctcctc	tttctctggg	tcaagaccat	gtaattttat	240
gcttcagaga	tgaagatact	gtttgtttac	aaagagttaa	gtttttaaga	catccaaaac	300
tctatgctag	agcaaaaatc	aaatagcaaa	ggacactagc	cagaaaatac	agtgtgtgtg	360
tgtgcacctg	tgtgcctgct	gaacaacttg	acagtgtaac	agataaggta	actgaagatg	420
gtggatattt	gaattgtatt	agcttaaatgt	ctacatatct	ttggccaaaa	ctctattgtc	480
atattagaaa	catgttatct	ttttcatgtt	tattagtaat	ttatttttga	ttctttgttt	540
tctttttcgt	ccaactaaaa	caactgtaat	gtacttgata	catttatatc	aagtctctaaa	600
gtatttagac	aaatccaaat	actttgtttt	tagttttttc	ctcctttcca	tcctgttaac	660
cacagtgaag	cgctgcagta	ttttgatttg	gtcagtgtta	cggaggaaga	ccatgaaagc	720
tgaattgggc	tgtgccaccc	agagtaaacc	tcttctcttc	ttctggaaag	atggcgtgat	780
gtttttcaag	gatttctaata	aatatcccg	agtcactctc	tgaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaagg	cgcc				865

<210> 53
 <211> 689
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (309)
 <223> n equals a,t,g, or c

<400> 53						
tcgacccacg	cgtccgattt	tctgataaga	cgattactaa	gacaaacttc	tatcctttta	60
cttagtaagc	atcatgacat	catatataat	caacctatct	ttcttcttac	ctttggcaac	120
tcggaaggtc	agtgtctaagc	cttgtgggta	accctagtag	tgacatccct	tcttatgtct	180
tagtaatcgt	cttatcagaa	aatatcatat	aaaataaaca	caaagtaaag	tttttactta	240
aaaagatctg	tagatatttc	actaactcta	ttaatgcttt	ggtaatatgt	atttaaatcta	300
taatcctgnc	ctagatcaag	ttttgaggcc	tcagtgttat	tcattccttg	ggctaagagc	360
cactgaaatg	ggataattat	tggtagagtt	acttctctct	tttaaattgg	ttctgttctg	420
ccatttactc	tttatttgaa	attgccttct	tttaaaagtt	attcttaata	ttgtaagcta	480
tttgaaaata	ggtgagccat	aaaaataaat	attaataatg	tatttctaata	tatcttatct	540
aacaaaaata	ataataaata	tccacttttag	aaaatttgga	aaatcatgaa	ggtataaata	600
ctaaaatcga	aattctctat	aagatcaata	ttcagatttg	acctcaggca	aacacagaaa	660
ttaaagttaa	aaaaaaaaaa	agggcggcc				689

<210> 54
 <211> 515
 <212> DNA
 <213> Homo sapiens

694760

<400> 56
 gaattcggca cgaggacgag gtaaaattat tagaatggag tatgtcatca ggtcttttcc 60
 tagtcctttt ctgcttcctg tgtgtctttg taggtttctt tgatttccat tgttggtgtg 120
 atattttggt aaaaagcagc tgactcacat cccatccaaa tccccagtc ccttcagatc 180
 cttcacaaat ttggcattca gccactcct tgccaattgc ttcttttctt cccaattccc 240
 acatgtctcc ttcttacgcc atctgcttct cctcccttcc ttcgattagt gctttcgtct 300
 gctcttccaa tttctttcat tgttcaatgt cttttgcttc ctcttcccc cctctcccc 360
 tagaggaaat taacatactt aatacagctg atgtcataaa gccccttttc cctaagaagt 420
 taaattttctg tttctgcaaa ataaatacat agctctgttg tgtgaaggtc aaaggaaacc 480
 tgagtagtaa acctgaaata gatttttttg ggggttcatct tacataaagt gtcaatgcat 540
 attatgtatt ctatttattt tccaaaataa attttctatt tgggatttaa atatggtaag 600
 tcaacacaac tttattgtac cagtcattgg attgaataaa tgacttaaaa ataaaaaaaa 660
 aaaaaaaaaa actcga 676

<210> 57
 <211> 832
 <212> DNA
 <213> Homo sapiens

<400> 57
 aaccgcgtgg cccaatggca gcgtcctaca gtgtagcctc cgcttcccga ttgactggcc 60
 tgcttggcaa ggcaagtagc ggcggcgctt caagatgcgc tgcttgacca cgcctatgct 120
 gctgcgggcc ctggcccagg ctgcacgtgc aggacctcct ggtggccgga gcctccacag 180
 cagtgcagtg gcagccacct acaagtatgt gaacatgcag gatcccgaga tggacatgaa 240
 gtcagtgact gaccgggcag cccgcaccct gctgtggact gagctcttcc gaggcctggg 300
 catgaccctg agctacctgt tccgggaacc ggccaccatc aactaccctg tcgagaaggg 360
 cccgctgagc cctcgcttcc gtggggagca tgcgctgcgc cggtagccat ccggggagga 420
 gcgttgcatc gcttgcaagc tctgcgaggc catctgcccc gccagggcca tcamcatcga 480
 ggctgagcca agagctgatg gcagccgccg gaccaccgcg tatgacatcg acatgaccaa 540
 gtgcatctac tgcggcttct gccaggaggc ctgtcccgtg gatgccatcg tcgaggggcc 600
 caactttgag ttctccacgg agaccatga ggagctgctg tacaacaagg agaagttgct 660
 caacaacggg gacaagtggg aggccgagat cgccgccaac atccaggctg actacttgta 720
 tcggtgacgc cccaccggcc tgcagccctt gctgcccatt aaaaccactc cgaccccaa 780
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg cc 832

<210> 58
 <211> 1003
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (422)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (700)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (758)
 <223> n equals a,t,g, or c

<400> 58
 ggtcgaccca cgcgtccgga ggcccgccagc ccggggcgggc cagggtagag cgccgcggac 60
 ccggccacgc agcccgggga ctcccgggcc ctcccgaggc ccgcgggggt ccccgccgtg 120
 catccggcgg gctcagggag cgagtgggag cgccctcccc ccgctgcccq ctcccccgag 180
 catcgagaca agatgctgcc cgggctcagg cgctgtctgc aagctccccg ctcggcctgc 240
 ctctgtctga tgctcctggc cctgccccctg ggggccccca gctgycccat gctctgcacc 300
 tgctactcat ccccgcccac cgtgaagctg ccaggccaac aacttctcct ctgtgccgct 360
 gtccctgccca ccagcactc agcgactctt cctgcagaac aacctcatcc gcacgctgcg 420
 gncaggcacc tttgggtcca acctgtctac cctgtggctc ttctccaaca acctctccac 480
 catctacccg ggcactttcc gccacttgca agccctggag gatctggacc tcggtgacaa 540
 ccggtacctg cgctcgctgg agcccgacac ctccarggc ctggagcggc tgcagtcgct 600
 gcatttgtag cgtgccagct cagcarcstg cccggcaaca tcttccgagg cctggtcagc 660
 ctgcagtacg tctacctcca ggagaacagc ctgctccaacn tacaggatga cttgttcgag 720
 gacttgGCCa acctgagcca cctcttcctc cacggganag cctgcggctg ctcacagagc 780
 acgtgtttcg cggcctgggc agcctggacc ggctgctgct gcacgggaac cggctgcagg 840
 gcgtgcaccg cgcgcccttc cgcgccctca gccgcctcac catcctctac ctgttcaaca 900
 acagcctggc ctgcytgccc ggcgaggcgs tcgccgacct gccctcgctc gagttrctgc 960
 ggctcaacgc taacccctgg gcgtgcgact gccgcgcgcg gcc 1003

<210> 59
 <211> 702
 <212> DNA
 <213> Homo sapiens

<400> 59
 gaattcggca cgagctgggt catggatttt gagaatcttt tctcaaaacc ccccaacccg 60
 gccctcggca aaacggccac ggactctgac gaaagaatcg atgatgaaat agatacagaa 120
 gttgaagaaa cacaagaaga gaaaattaaa ctggagtgcg agcaaattcc caaaaaattt 180
 agacactctg caatatcacc aaaaagtctg ctgcatagaa aatcaagaag taaggactat 240
 gatgtatata gtgataatga tatctgcagt caggaatcag aagataattt tgccaaagag 300
 cttcaacagt acatacaagc cagagaaatg gcaaattgct ctcaacctga agaattctaca 360
 aagaaagaag gagtaaaaga taccacacag gctgctaaac aaaaaataa aaatcttaaa 420
 gctggtcaca agaatggcaa acagaagaaa atgaagcgaa aatggcctgg ccctggaaac 480
 aaaggatcaa atgctttgct gaggaacagc ggctcacagg aagaggatgg taaacctaaa 540
 gagaagcagc agcatttgag tcaggcattc atcaaccaac atacagtgga acgcaaggga 600
 aaacaaattt gtaaataattt tcttgaaagg aaatgtatta agggagacca gtgtaaattt 660
 gatcatgatg cagagataga aaaaaaaaaa aaaaaaactc ga 702

<210> 60
 <211> 1095
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (202)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (556)

tctgaagggtc	tcagcttcct	agatgttcta	cactcttctc	gaccattttc	actgaaccct	60
atttgatttta	ctgaaagcat	atttactaat	tgtttgact	taaagggtgct	tttatcctag	120
aataaacaat	gcttttaaaa	caattcacta	ttctaaattg	atactggctt	aagatgttgt	180
tccagtgtca	ggtattgtta	tcgatttttt	ctttcctaga	acctgtcctt	tccagtggct	240
ccagtagact	tgtattttat	aatctttcaa	atattatgta	gcttggttaa	cttcccata	300
tgatcttgtt	cagttttctc	actcatttgc	aaaagagatg	actagcatgg	gagcctggat	360
tccagtatct	gttttagtgc	cttattagtg	cctcttagct	taggttcttt	tgatgattca	420
gcgtccagat	aatccaaggg	agtgactgta	atcatagggg	tttctagtag	aatgcaatca	480
tgagcccctt	aggaagtttt	ggtaataat	aaaccacaca	taggggtggg	gtcccctaag	540
attataatga	agctagaaaa	ttcctcttcc	ctagttagtt	gtagccatcc	cacactatag	600
tagtgcaacg	cgttactcac	tgtgtttgtg	atgatgctgg	tgtcaacaaa	cccgcactac	660
cagttgtata	aaagtatagc	atgtacatac	atttatatgt	agtacatata	ttgataataa	720
atggctgtgt	tactggctta	tgtatttact	atgtttttta	attgttattt	tacagagtac	780
atcttctact	tattaaaaga	agttaactgt	aaaacatcct	caggcagggtc	cttcaggggg	840
tattccagaa	aaaggcattg	ttatcgtagg	tgatgacagc	cctatgcacg	tttttcacca	900
gtgggatgaa	atatggagat	ggaagacagt	gatattgatg	atcctgatct	ttgcaggcct	960
aggctaattg	gtgtttgtgt	cttataagaa	aaaggattaa	aaaagaaaga	atttttaaat	1020
ggaaaaaagc	ttatagaata	tgaatataag	gaaagaaaat	atttttgtac	aactatacaa	1080
tgtgttggtg	ttgtaaaacta	aatgttatta	caaaaaaaa	aaaaaaaaac	tcga	1134

<210> 63
 <211> 1448
 <212> DNA
 <213> Homo sapiens

<400> 63						
ctcaggggta	cagtacaaa	ccaagggtga	tggtaccact	taaaatggac	tctatcacag	60
tgacacataag	gagcaccaac	ggacctatcg	atgtctatct	gtgtgaagtg	gagcaggggtc	120
agaccagtaa	caaaagggtct	gaagggtgctg	ggacctcttc	atctgagagc	actcatccag	180
aaggccctga	ggaagaagaa	aatcctcagc	aaagtgaaga	attgcttgaa	gtaagcaact	240
gatggcattt	gagaatttat	gtatcactga	gttttttggg	aatatcttcg	tggagaatta	300
cgcatacaat	ttgattctca	gagcaataaa	ttatccatga	agtgcctcgc	ttctcagtag	360
cggcatcatg	gccagtagtg	tcttttgagga	gttcaccact	tagattactg	agtaattgtg	420
gtttccacat	ttgaaaacaa	ctccttttat	aattattcac	tgctttttgt	cagtgaataa	480
gacatcttgc	ctcctgaagt	agcttcatca	cagagtgtca	tgaagacaga	cagtcagggt	540
gaaatggaca	gttctttgtg	gactctaccc	ttcccttcaa	ggagtatgtc	atataacaca	600
aaagaaattg	ccttacactg	gttcattgtt	gcagttactg	ttgtacattg	catagatgta	660
cacacgaatt	taaatgtgat	gtctttgtat	atatctgtat	aatgttgaga	ttacttacga	720
aatatgtctg	agtgcacatt	ttcacccttg	tacagccaaa	ataatgtata	tatggaaagt	780
gacagacaaa	ttctctaata	tcttttggtay	ctataactta	ttagaatcct	ctggatgagg	840
gttagaagag	actttttcca	aacttctaca	tgtagaagta	tcataaatgt	gctacacatt	900
tatgttttgt	gatttaatta	aagtatttta	atatggtttt	cagtgcataa	attggagtca	960
gatacttctt	ggttttaagc	tgtctaccta	attgctgtct	cccagcagac	tggtggcatg	1020
cccagtggct	ttggggggcaa	ggatagaaat	gccatcagga	aatagctgaa	ttcatttgtga	1080
aacatgaatt	cagtcattgt	gataattgga	aactcctttc	aggtttttgc	aagtagattt	1140
tgtaatgttt	gtgtatgcag	ccttgctgtt	gagtcagtc	aaggggtttt	acttaggaca	1200
agttgtacct	tgccctctct	ccagctctgc	ttccacattt	tcacatacct	agctgtttct	1260
acctcattgg	gtaagtcatt	taccactctg	tgccctcagt	tactctgtag	tttaccatta	1320
gactgtgagc	tccttgaggg	actttgtcat	aatcactgtt	acatcccagt	gcctcacacc	1380
atgcctggcc	cttaagaagt	gctcaataaa	tgtctgaaca	aataaaaaaa	aaaaaaaaaa	1440
gggcggcc						1448

<210> 64
 <211> 756
 <212> DNA
 <213> Homo sapiens


```
<220>  
<221> SITE  
<222> (16)  
<223> n equals a,t,g, or c
```

```
<210> 67
<211> 674
<212> DNA
<213> Homo sapiens
```

```
<210> 68
<211> 794
<212> DNA
<213> Homo sapiens
```

```
<400> 68
tcgacccacg cgtccgagat cttcagcaga aagatatattgg tgtgaaaccg gagttcagct      60
ttaacatacc tcgtgccaaa agagagctgg ctca gctgaa caaatgcacc tccccacagc      120
agaagcttgt ctgcttgcca aaagtgggtgc agctcattac acagtctcca agccagagag      180
```

```
<210> 69
<211> 1915
<212> DNA
<213> Homo sapiens
```

```
<210> 70
<211> 733
<212> DNA
<213> Homo sapiens
```

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<400> 70
 gcnggtggcg gccrcrtcgt agaactagt gatccccckg ggctgcagga attcggcacg 60
 agggcggtt catcatgaag caaacgcggc tgaaccccc agtggtcttc attcttctcc 120
 aaccctttc aagaccagg gatgggctca gcaattctgt ttttaataatt ttgcattctg 180
 tcccttaaat cataaagaga gcccccaatc tgtaaagctt ctgatccac acaacctctc 240
 agggctccag ggtcctgagg aggatggcca ggtcactgtg ggctgtggg ggagccagcg 300
 ggcaccagg gcttcctggg gggccaggtc cctggtcata gactgagcca gammagcadc 360
 agcytccgat ctccaggccc ctgcgggtgag ggccccaatg cccctgataa ggctctgctc 420
 cttaaagggt gttggccttg aacaagctgc tctcctgcct cagtttccam ttcaggatgg 480
 agacatgaat gagagaagtg tccctgaaac tcctgatggc tttccatttc ctggtttctc 540
 gtcttttctg aggttgaatt cttegcctgc tttctctgag atccctcact ttcttgccaa 600
 gaaatttctc cttagtctg ttcagagtga agtgcaaatc aaaataaaaa agtgcaagtt 660
 caaagtgcaa tcaaaacaaa caaacaact ttggctaagg caaaaccaa ccaaaaaaaa 720
 aaaaaaaaaa ctc 733

<210> 71
 <211> 1266
 <212> DNA
 <213> Homo sapiens

<400> 71
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 tactacgggc ctgggggttg agatgtgccg gtacaccac ctccaccctt atatectctt 120
 cgccctgaac ctccccagcc tcccatattcc tggcgggtgc gcgggggcgg cccggcgagg 180
 accacctggc tgggagaagg cggaggaggc gatggctact atccctcggg aggcgcctgg 240
 ccagagcctg gtcgagccgg aggaagccac cagagtttga attcttatac aaatggagcg 300
 tatggtccaa catacccccc aggccttggg gcaaatactg ccttcatact caggggctta 360
 wtatgcacct ggttatactc agaccagtta ctycacagaa ttccaagtac ttaccgttca 420
 tctggcaaca gcccaactcc agtctctcgt tggatctatc cccagcagga ctgtcagact 480
 gaagcamccc ctcttagggg caagggtcca ggatatccgc cttcamagaa mcctggaatg 540
 amcctgcccc attatcctta tggagatggg aatcgtagt ttcacaatc aggaccgact 600
 gtacgaccac aagaagatgc gtgggcttct cctgggtgctt atggaatggg tggccgttat 660
 ccctggcctt catcagcgcc ctccagacca cccggcaatc tctacatgac tgaagtactt 720
 caccatggcc tagcagtggc tctccccagt caccctcttc acccccagtc cagcagccca 780
 aggattcttc ataccctat agccaatcag atcaaagcat gaaccggcac aactttcctt 840
 gcagtgtcca tcagtaagaa tcctcgggga cagtgaacaa tgatgattca gatcttttgg 900
 attcccaagt ccagtatagt gctgagcctc agctgtatgg taatgccacc agtgaccatc 960
 ccaacaatca agatcaaagt agcagtcttc ctgaagaatg tgtaccttca gatgaaagta 1020
 ctctcccgag tattaataaa atcatacatg tgctggagaa ggtccagtat cttgaacaag 1080
 aagtagaaga atttgtagga aaaaagacag acaaagcata ctggcttctg gaagaaatgc 1140
 taaccaagga acttttgga ctggattcag ttgaaactgg gggccaggac tctgtacggc 1200
 aggccagaaa agaggctgtt tgtaagattc aggcatact ggaaaaaaa aaaaaaaaaa 1260
 actga 1266

<210> 72
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 72
 gaattcggca cgagtaccct gttctaatac agttcagtgt gtcttataga aaatcattta 60

09/4639 020101

tcttttgcct	ccctgaaatg	attttaactt	tttgtgtttt	tctccttttc	tcattttcata	120
atgcaattaa	atctacccct	tttctcaa	tttataaaaca	catgaataaa	atatctttta	180
cttaagggtca	aacacaaatg	gagtggcgta	ggctgggtcat	ggtgggtgac	acctataatc	240
ccaacactgt	gggaggccga	ggcagggtga	tcacttgagc	tcacaagttt	cagagccgag	300
tgagcaacat	ggcaaaaccc	cgtctctaca	aaagaataaa	aaacttagcc	aggcatggta	360
gctactcagg	gaggatggct	tgagcctggg	aggcagtggt	tgcaatgagc	caagatcgca	420
ccactgcact	ccagcctggg	stataaagcc	agaacttgct	tcaaaaaaaaa	aaaaaaaaaaa	480
ctcga						485

<210> 73
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 73						60
gaattcggca	cgagtattaa	gtcaaattgc	tgtattctac	gtgttagagt	gagttcaaaa	120
gatccattgt	attactgaat	aggcaaaagt	tttaatttca	gaggatgaaa	ctgatataat	180
actgccacct	tgtggatatt	ctgttattac	aggctattat	aaaargcaat	gcgggtatgt	240
aatctgttct	aacaagaagc	atttcctttt	tttgcgtttt	ttattattgt	tattattaca	300
ttttaagttc	tgagatacat	gtacagaacg	tggagggttg	ttacataggt	atacacatgc	360
catgggtggt	tactgcaccc	atcaacccat	catctacatt	agggtattct	cctaattgcta	420
tccctcccc	agcctcccc	cccttgacag	gccccggtat	gtgatgttcc	cctccctgtg	480
tccatgtgtt	ctcattgttc	aactcaaaag	aaaaacagaa	gcattttctg	ctttcccaat	540
ttcttaaata	caatgcaact	ttatgtttta	tttaactaac	ttaatttttt	gagacaaggt	600
ctagctctgt	tgcccaggct	ggagtggcgt	ggcgtgaata	tggttcagtg	aaacctccac	639
ctccctgggt	caagtgatcc	tccttcctca	gcctctcga			

<210> 74
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 74						60
atggctgctt	tcaaccggaa	cgcgcccatc	cttcaagatc	aagaccatt	ccatagttca	120
acaagtagtt	ggtgatgata	gagtgcctcg	actgggccag	aacagcctct	ttagccaaac	180
agcgcaggaa	agtcttttaa	cagatgctca	gtccttttct	tcattttcac	tttaattcca	240
tgatgectct	gtgtccctct	gacgacatct	ctcctggggg	ctgggactct	gctggtcttc	300
catgcctact	gagaaggctt	cctggccatc	atcaggcagg	aaaacctcaa	agccctccgt	360
cctcaacgtg	ggatccctgg	gccagcagca	tcagcctcac	caggaaacct	gttcttctgc	420
tcattcttgg	gccccacccc	aggcctattc	aaagaaagac	tccaggggca	gcgcttggca	480
gcctgtgttt	ccaccagatc	tgtgtgaaaa	ctcaaataaa	ccagcccagg	tgatgtgacg	532
caggaagtgc	aaggctgaga	gccagtgtct	aaggcaacct	cgtgccgaat	tc	

<210> 75
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (507)
 <223> n equals a,t,g, or c

<400> 75
 aggagacgt agaactagt gatcccmgg gctgcaggaa ttccggcacga gccccagcta

60

ggaagaaaga	atggcactct	tgggcttggc	ccagaattag	agttattaga	gcaagagaga	120
gcttaggaag	catgagggca	actatagtga	ggccttattg	ccaggagggg	gggttttgg	180
tgctggcgct	tgtgtataaa	ggggcaagag	cagctccctt	ggactattcc	tgaggaggact	240
ctgatgcagg	gcgtctgttg	ctcccctggg	tcacctcctc	cctgctcgct	gacatctggg	300
gctttgacct	tttctttttt	aatctacttt	tgctaagatg	catttaataa	aaaaaaagag	360
agagagagag	agggtgtgag	gacaaaatgc	aaacctat	cccttgccct	ataggcttct	420
gggatgtcat	cacctccagt	ttgttggttt	tgtttccaac	tgtaataaaa	gcattgaaac	480
agtaaaaaaa	aaaaaaaaaa	acaaaanaaa	aaaa			514

<210> 76
 <211> 644
 <212> DNA
 <213> Homo sapiens

<400> 76						60
tgcagttttt	tttttttttt	tatttattat	tttacttta	gttctgggat	acatgtgctg	120
aatgtgcagg	tttgttacat	aggtatacat	gtgccatggt	ggtttgctgc	acctatcaac	180
ccgtcatcta	ggttttatgc	cccgcatgca	ttaggtattt	gtcctaagtc	tctcccgccc	240
ctttcccaact	aacaccctcc	tgagtttatg	aatccttgca	gatatgtttt	atgtatatga	300
tcatagtatg	tatgtagaca	cacacacaca	cacacacggt	ccctctctct	acacaaatgg	360
taacatacta	aagatactct	tctgtacctt	cacagtacaa	gtaccatatt	ccccacttag	420
cacttggcaa	aggccaaagc	cagtttaagg	cagggtgagc	acttgccctc	caagctctat	480
gtccagtgtc	cgctccccac	agggcccccta	actcaccac	agaagcggac	tcagccccag	540
gctacgtcta	acaaccacac	acaaaagcag	caagaaatgg	cccatgctgc	cttctgggca	600
ggacattcca	tcctgcagaa	ggaaccttta	ggctcactcc	gccacctggg	aagccaggct	644
gccaggggat	ggggcaggcg	ggtggactca	ctcgtgccga	attc		

<210> 77
 <211> 1199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (469)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (582)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (630)
 <223> n equals a,t,g, or c

<400> 77						60
gaatggcacg	agcaatggct	ctgttagtcc	tgactctgta	ttgcattctt	tttttaaaaa	120
tctacatgcc	tgtcccatct	cactgtgagc	aattcaaagg	caggaattaa	gtcttattaa	180
tttctctctt	ccgttgccca	gcatagtgc	cagaacagag	ctcaataaaa	tgtgttgaat	240
agataaatgg	gctgttaaga	gaaaaacttt	agcagaatta	aatttaaagg	agtttaattg	300
agcaatgaat	gattcacgga	tcaggcagcc	cccagaatta	ctgcarattc	agagaggctc	360
cagggtacct	catggtcaga	acaaaaaaag	ggaagtgcag	tacagaaatc	agaggtgagg	420
tgcaraaaaca	gctggattgg	ttacagcttg	gcatttgtgt	tatttgaaca	cagtctgaac	480
actcagcact	gtatgaatgg	ttgaagtgtg	gctgctgaaa	ttggctgana	ctcagctatt	

gttacaggct	gtaatcctaa	attaggggtt	caatcttgtc	tgcacactaa	ggtagggttg	540
agttcgtcca	caaggactta	aatacagaag	tatggagtcc	tnctcaggcc	atatttagtt	600
tgctttaaca	aggcatagca	gtgataagtn	ccagagagag	gtggtcagca	cgattcatca	660
ctgtccctcag	acaagaagag	gatgaggagg	gatgagccat	ttgtgcctat	tttgkacctt	720
tttgggcaaag	tcatgattac	ttagtcatgt	wacatgtaac	ttagcatgac	ccatgggtac	780
agaaactagg	tttaattttt	ttatccaaca	gtgamgtttt	ccatacttca	ctcaagtact	840
tagtaattgc	tgtagctttg	cttcattgca	gcggttcat	agatcatggc	tgttgttcat	900
cgcttgtggc	gtgcctggga	aatcaatagc	taaaaaygtt	ttgtgaacc	ttagtagttg	960
ttacctgggt	aggtttggaa	tgttccagga	gaattaatga	acamtcagg	gatmgtttt	1020
tcattttaca	gggaataata	agcaaatgcg	tgtttggaag	tgtgattcta	tcaaactctgt	1080
ttataaataa	gtgcatat	gccatttaaa	gtaattttt	tatctgtgac	ttgggcttca	1140
tgggattagc	tataatgaca	cgtctgggag	tctcctcaca	attagaatga	aatcctcga	1199

<210> 78

<211> 660

<212> DNA

<213> Homo sapiens

<400> 78

gaattcggca	cgagcagagg	cccggtagct	ttaagctcta	cctcgccaat	gccctctcgc	60
ctagtaatcc	gtgcacacag	cctgctgttt	gccatgcaga	atgatggcct	caagttcatg	120
gaaatgggtg	tccatgtcct	tcaggcaagt	ataggtgttc	tgttgcttat	ggtggatgtg	180
ctcgagcatt	ttcttgccat	gctcattggc	aatgcagggg	ctcctttgcc	actgctggat	240
gtgctgggga	aggatgttat	tgatgtggct	gaaagaagag	agagcaagaa	atgaaatggg	300
tagatgggga	catcagagga	atgagaaaga	tgagctacca	aatgggtgact	ctatagggta	360
ctgagtggtg	gatgagtgca	cgttgggtgaa	tgggtgggtg	aacagtgga	gggtgggtgg	420
atgggtggag	gggcaggtgg	gtgagtggtg	ataagggtgg	atgagcaggt	gggtgagtg	480
ctatgagggg	gaatgagcag	gtggatgagt	ggctataagg	gtggatgagc	atcctgggtg	540
atgtaatgtg	gatgggcagt	tcagtgagtg	ggtgactatg	acgggtggatg	ggtgggtggc	600
tgagtgggaat	tacagatggc	atagatcaca	ccttactttg	cctttgtccc	taaacctcga	660

<210> 79

<211> 524

<212> DNA

<213> Homo sapiens

<400> 79

tcgagccccg	gctggcgggc	ctggctgctg	ggtctttgtc	ttctaggttc	ctctttctcc	60
caagaagggc	taagtggatc	ctgtgaagg	agggatgcag	tggggggaag	gagctggccc	120
cagctgggtt	tacattctca	gctgggacag	cagagcctca	ctgtgtatgt	gtgcagccag	180
cagataacctg	tgcacaggca	cagaccacc	aactcgtggg	gacacttcaa	caccgcacaa	240
agccattttg	ccactagacc	catgccccca	aattagcaga	actgctcgtg	cgaattcct	300
gcagcccggg	ggatccacta	gttctagagc	ggccgccacc	gcgggtggagc	tccagctttt	360
gttcccttta	gtgagggtta	atttcgagct	tggcgtaatc	atgggtcatag	ctgtttcctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgccaatga	gtgagctaac	tcacattaat	tgcg		524

<210> 80

<211> 434

<212> DNA

<213> Homo sapiens

<400> 80

gaattcggca	cgagcggcac	gagctcgtgc	cgaattcggc	acgagatttc	atgggcagtg	60
tctggaactg	ccttttagca	ttacttgaaa	aacatttaat	tactttgtac	aaattaataa	120

<210> 83
 <211> 785
 <212> DNA
 <213> Homo sapiens

<400> 83
 gaattcggca cgagcttggt cacactcagt aaacacatta gttgaattcc tctgattgtc 60
 aattagcaat ggttttgcca agaatactgg tattgatgct gtttttagca ctgaaaaatc 120
 ctgtgggaga aatgaggaat ttaacacatt gtaggtgtta agattcctgg gtgtctgaca 180
 gtatccctgg aaccattatc attaatattac ttttcaatca gaaaggcaaa ctactttgct 240
 gttaggcttc cagatgaggt tttttgaaaa aacagtaaga taataaaggc ttggattgct 300
 cctacttcct gaggcaagtc acatctcata ttattcagaa cttggactga agagctcata 360
 gggcaagtga ggccaaggtc aggagtcttc agacatcttg ggccaagtgc cattctagaa 420
 gaaatgattc tcttcctcag tcaccatcta tctatgcccc caggtttgac tcgctctttt 480
 cccaaggagt gctgttcatt cctgacacaa gggagaccag aaaagagatc atgaatgaca 540
 gtgaaaacct ttatgacact gacataaagc agagagttag actgaatatg agttggtagc 600
 ttttcctttg tatctgtgta agttgaatca taaaaaattg tcatttttgt gattcaaaag 660
 tgtaaaacaa aagcaagttc atatgattca agcttacatt tttttctcac tataagaaag 720
 aggatttaaa gaattgtatt aggttagcga atctgatttc tttcatgcaa atacagctcc 780
 tccga 785

<210> 84
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 84
 aaacgacggc cagtgaattg taatacgact cactataggc cgaattgggt accggccccc 60
 cctcagagtt gaattagaga aaacgacatg gacacacgtg gagtggtttt aaggagcgga 120
 gagtttaata ggcaagaagg aaggggagaag acagaaggaa gaagctcctc catatggaga 180
 cagagggagg ggggctccaa agccaaaaga ggagggtccc aagtgcagtg gacaccagcc 240
 aagtatatat gcagaggetg gaaggggcca tgtctgattt acatagggtc caggggattg 300
 gtttgaccac gcatgttatt cacatagccc actaaaaagc tggctctccc accctagtct 360
 tttaatatgc aaatgcaggg agccatggat gttctacaca tgtggggata tttggggatg 420
 ttctacacat gtggggcggc catgttgcca ggaacatgtg aggcaagggt aagaaggcct 480
 tgggaattgc catgttggtt ggaccagtt tctaattggc tgcatttgca tatcaaagg 540
 tgctcgtgcc gaattcctgc agcccggggg 570

<210> 85
 <211> 905
 <212> DNA
 <213> Homo sapiens

<400> 85
 gaattcggca cgaggtgatg aataaataaa tcaacagaga ttttaccatg ttttttttta 60
 aactgatcta gtttatcaat ctcttatctc tacaatttat ctttcaacta aagaactaaa 120
 gttatcttcc aaaaacacag aatgaatcag ctactctcc tcaagactct taaatgggtcc 180
 ttcattactt gttgagaaaa gccagactt gtttagtgga gcaattaaac tccccacaat 240
 ttatctgcca gaagactttc tggaaccatg tatggttttt ttgccctcca acttacagtc 300
 ttattgggtc attatttttt tctcatcatg ccacacattt ttgtgtcagg taatttttagt 360
 cttttggcct tgttcttact atcagccaac ttcatagttg aagtccagag ttggttggtg 420
 ttggttggtt tttttatcka tttaggtagg agttacaatt tttatttgct ttgtgacagc 480
 attattttct gacacatttt ctccatattc ttttaaagag tttctttttt aaacccatgt 540
 tattcaagggt taaacaaata acgagtttct ttggttggtt gttatgctta cacttacttg 600

aatatgttgt	ttttttcca	gactagccat	tagcaagatt	cctgtggagt	gagggagtgc	660
ccagggtagt	tctccagatt	attctgctca	aattcttctt	cttctcatgc	tgcagtgatg	720
aattatttct	tcaaaactat	gacccactg	tgtagctcca	cctttccttg	ttctcacaag	780
agtgtacaaa	atcggtgagt	cttctgagcc	atggctaaca	agaatcctag	ctactgcctt	840
ccactatatc	tttccctttt	taaaaggagc	attttctgag	tttagtcatc	tcaggccttc	900
ctcga						905

<210> 86
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 86						60
gaattcggca	cgagcaaaga	tgaggctgtc	tacaaaactta	tgtatcattc	taataaatat	120
tttaatacag	aatgtttctaa	attttaatat	gaaaataata	tttaagttcc	ttccatgtgc	180
catgcataat	cttatatcaa	gtataatttc	atttttatat	aatctctgtg	ccttacctct	240
tgcttctccc	caattcacia	atgaagaaag	tagttacacc	gcccttcggt	catgtacaag	300
gggagggttt	gaatccaggt	ctctaggaac	ccaaaagtca	tgcaccttcc	aaggcaaagg	360
agattaccat	gttacagcat	agataaaaac	ataatagaat	taggaattgg	ataagtatat	420
agggttcaat	agtggtcccc	caaaattcct	ctcaacactg	aagctcagaa	tgtgacctta	480
tttgagata	ggatctccaa	aggtaatgca	gatgtaatca	gttaagatga	ggtcataccg	540
gattaatttg	ggtcctaaat	ctaagtactg	gtatcctttt	aagaagaaga	gaaaacacag	600
gacacagaca	caaggaagca	gcaaactgta	agacagaggc	tgggggtgta	gtgatgcagc	660
tataaggcat	ggggccaccg	gaggctggga	agggataagg	agggaccctt	ccccaaagcc	706
ttcagaggga	gcagctgaca	ctttgaattt	ggacttctag	cctcga		

<210> 87
 <211> 1544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (8)
 <223> n equals a,t,g, or c

<400> 87						60
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atgtgggaaa	atgtaaaagc	agggatatca	gtgggcatta	gaataaaaac	tagggatata	180
ataacttctt	tgcatatgac	aatacttatt	tgtatataag	agaaagaacg	aaataacctt	240
tattgaaata	aagatactat	gcaagaaaaat	gtacagtgtg	cgaagtggag	aaaatgagga	300
tatattcctg	cagacgagct	ataggtcata	catgaatgtc	tagtgagaca	ttcaaaattc	360
gtatagggtg	cagagtaatt	tcttattgtg	aggaactgtc	caatgtattg	caagatgttc	420
tgcatacttg	gctctcatat	actaaatgct	agtagcgccc	ccacccccac	gccagtcac	480
ggtgacaacc	acaaacccta	tcagatctat	tcaccttttt	cagagcagat	attttgtaac	540
attctctttg	ctgacctgaa	atgactcata	gataatacaa	tctacttaca	cacatgaatt	600
tcttaaaaaa	atcaatttaa	tgccctaact	ctcttattaa	ggagaaatag	aaaagaagaa	660
atttataatg	aaaagaagat	gaatttcatt	atgtaaacgc	tcaggcatga	ctacgctggt	720
tgaacacagc	agatgtttac	tcttcttctg	aatgagtagg	tttggattta	agagccgatt	780
agaggctact	tcctgtaaac	aagtacagga	aaatgaaact	agacgggtgg	gggacactag	840
aatgaaaacc	agtggttaggg	taaagacaaa	acagactatg	tacataatct	gtatatggga	

aaagaaagag	cgaaattacc	ttactttaagg	ataataggac	aagacaaaatt	acagattgtc	900
tcagagaaaa	caaagtagtt	actctctcgg	acaagctgta	ggtcctacct	aaatgtccag	960
caggacatta	gacagtcgta	cagggtagag	aataattctt	cgttgtgtgg	cactaaccga	1020
cacactgcag	gacatcggtc	tccctgggctg	catccactca	gtgctgggag	tagtccccag	1080
ttattatgaa	accaccaata	accactgac	cacagtgaga	accactgatt	ttttccactg	1140
acctactgaa	tatctagcat	ccttagattg	gctcaactgt	tactttccta	aggagtcctt	1200
ctacagaata	ggtcagatct	tggcctccca	aaccctttat	ttttaaaata	ctttgcgcct	1260
tgctttgata	atttgtatta	tgtatccaaa	ctgaaattat	ctgctttctg	cattagaatg	1320
taagccccct	gaggggttag	tcagtctgtc	ttgtttgctg	tgccacgcct	gatgcccagc	1380
ccagcagcat	gctttgtaca	ctgatataat	gggttaaattt	tggtgaataa	attaagctca	1440
actatttgta	tttcaatagt	tgagttgtat	tgcttcctgt	tcttcaagct	taatttgaac	1500
tgtctaataa	aaagaagtaa	ttaaaaaaaa	aaaaaaaaaac	tcga		1544

<210> 88
 <211> 840
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (326)
 <223> n equals a,t,g, or c

<400> 88						
gaattcggca	cgagcttttt	cattatcttt	accttaatct	cttagcatat	gatttatgga	60
ctggaatggt	gagtgatata	agtgggcaaa	aacaatcatt	agaggctggt	aaggaacatt	120
tattgtttat	ttggctacct	gtctataaaa	gtacacatga	aggccctaata	agcaaaatat	180
caaattatca	agtgtcttaa	agcagaaaaat	gtcattttgt	tctcaaaact	gcaccaactt	240
tatataattg	cccttttaata	tatccctagt	ggcccgtaga	atttgcaaaa	tagagcatca	300
aagcttgatt	tacttacagt	tgcacnttgg	cgggatctta	atgaatattg	tttagtacta	360
atgctgagat	ggaatcgtaa	atgtttatag	tgagggactt	acttagaaga	gtggggaggc	420
cagtaatgaa	actgaatcaa	ctgggttctt	caagatggaa	caatatggcc	atattcttgg	480
gcctaacatt	ttgaaaaaatt	ctttttatag	tggaaatttta	tttttaattc	aggtctagat	540
gaatacacat	taagtttagt	tttgcagaat	cttttttttt	ctgcctagct	atcttattac	600
tttccaaggg	cttttgagga	gtaatttggt	tcctggcaat	ttcggattaa	aatcacctgt	660
ttcttcataa	attgtcatct	tcaaggtaac	actgagaact	ggatctctga	aatctcatgt	720
tttcgagatg	attttttatag	ctgcagacct	gtgggctgat	tccagactga	gagttgaagt	780
tttgtgtgca	tcatcatgtg	ccattaaatg	aaaaaaaaaa	aaaaaaaaacy	cgggggggggg	840

<210> 89
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 89						
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caccatgcgg	cccctgctct	gcgcgctgac	cggactggcc	ctgctccgcg	ccgcgggctc	120
tttgcccgct	gccgaacctt	tcagccctcc	gcgaggagac	tcagctcaga	gcacagcggtg	180
tgacagacac	atggctgtgc	aacgcctgtc	agatgtcatg	gaggagatgg	tagagaagac	240
cgtggatcac	ctggggacag	aggtgaaaagg	cctgctgggc	ctgctggagg	agctggcctg	300
gaacctgccc	ccgggacctt	tcagccccgc	tcccgacctt	ctcggagatg	gcttctgagc	360
cctggagctg	gagcccagca	gttggagggtg	gtgcacctgc	cagcagcgcc	cacagaacca	420
gccctgtcct	ctcgacttcc	ttccttagct	tcattgtgaaa	taaaagctat	tctgggtcaaa	480
aaaaaaaaaa	aaaaaaaaaa	aaaaactcga				510

<210> 90
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (66)
 <223> n equals a,t,g, or c

<400> 90
 ncggaagtcg gcgncacgta gtagggaaac ctgggacgcc gtgcaggtac cgggcccggaa 60
 ttcccnnggt cgacccacgc gtccgggtcaa taactgtcat agtgaaaatg tggtttttaa 120
 gagtagtagc tacttatggg ggtgtagaaa gaatggcctc tctcttagac aatttcattt 180
 taaacatcat agtcatcttt tgcatagtga ttgactccta tctttgtggg ttcattgtatt 240
 tctttgtgat tgattcccca gtgcctgcct gcagtcatt gcaactctcc caaactttaa 300
 tcctgcagct tcagcccact gctagatatt tccattgatg acctgtcatc tgaaacctag 360
 cattcatcat gtgctgtgtt gtataattgt atgtctgtgt tattgtatta ctttcccaag 420
 taaagttttt gtgtaaggac ttaacactgc tttgaatccc ctgtacctat tatactgctg 480
 tgtacaaagt aggagttaa atacatgtga tcacaatagt cttccattca taactcatca 540
 gcagctcagt ccttcttatg tctagtctca gttcattcag ccaaagctca tttttgtcct 600
 atccaaagta gaaagggttc ttttagaaaa cttgaagaat gtgcctcctc ttagcatctg 660
 tttctgactc ccagttattt ttaaaataaa tgatgaataa aatgccaaaa aaaaaaaaaa 720
 aaaaaaaaaa gggcggcc 738

<210> 91
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 91
 tccgagtttt ttgtaccact gattgttctt tcgggtgggtg tgttagaatt gagctagtta 60
 tttatagttc tctgttgaaa gagcccacag ggaggagagg tgagctgagc atttgaaatt 120
 caggatctgg ttaakgttgt cagctcagtg gatttgagaa tattcacaga taagcaactc 180
 agaaggatca tacttgtatt gtaggcctc aggtattcag gaaatagatc ttctcttggtg 240
 attcaatagc cataatccaa attaaacatc tggcttttcc aatgtgtatt tttgaatgta 300
 tgtgtcattt cttcatagac atatcaaatc attactatgt ggtaagattt tatccagaag 360
 attctcttcc taaaaccttt atatatgacc cttttaaagc ataaaattat tttagggtgtg 420
 agtttttatt atgcaataca aggatacagt ctttaatttt ctacctttaa gctcgtgccg 480
 aattcctgca gcccggggga tccact 506

<210> 92
 <211> 1203
 <212> DNA
 <213> Homo sapiens

6574639.626464

<220>
 <221> SITE
 <222> (1165)
 <223> n equals a,t,g, or c

<400> 92
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 gaagacacat ctgtgtgacg tagagattcc agggcagggg ctatgtgtga aagcaactct 180
 accatgcctg ggcccagtct tgagtcacct gtcagcacac cagcaggcaa gattggtcta 240
 gctgtctgct atgacatgcg gttccctgaa ctctctctgg cattgggtca agctggagca 300
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 ttgctgcggg cccgtgctat cgaaaccag tgctatgtag tggcagcagc acagtgtgga 420
 cgccaccatg agaagagagc aagttatggc cacagcatgg tggtagaccc ctggggaaca 480
 gtgggtggccc gctgctctga ggggccaggc ctctgccttg cccgaataga cctcaactat 540
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 aatctgggtc acccactgtc ttaagacttg acttctgtga gtttagacct gccctccca 660
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 gaaactttca cctgagcttc acctgaggtc agactgcagt ttcagaaagg tgggaatttta 840
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 ttgaaaaata taataatcat aaagtctgtg tctggacatc gcctttggga actagaaggg 960
 gagttgggat tgtaccagct ggactaagct ccagttctag acctcctggc tcattcaaca 1020
 tgcctcccta cctaaataaa agtgcaacac tcagtgcatt tcccagcccc attctcccaa 1080
 gcctgggagt gggcgttagga gtggaggagg ggggaaggaaa aaggaattac ttcacttaca 1140
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 att 1203

<210> 93
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 93
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 ccactgtccc cagcaggatt atcttactat attgtgccac agaataatatt attagcgttt 180
 gattggaatt acatagaatt ataaatttgg tatttgtgac tttctgctgg aaatcatgat 240
 accatgaaca ttctgatgtt tgcgtttatg ataattttca tgggagctaa atttcaagaa 300
 gtagaatttt gggtcagagg atatgatcat ttaaaagcaa cattgtttga tcagattggc 360
 agatacttaa agatgggtgg acaggagcca ttgctggcaa aggtttgggt aaggggcact 420
 tgagtatgct gctagtgaac gggaattcta cgcattttgt catagaatct gggaatgact 480
 attaagattt atttattccc tctctaggta aaatccctct ctaggatat aaataaataa 540
 taaataataa ataaataatc agtttcagcc aggcacaatg gtcacacct gtaatccag 600
 cactttggga ggccaaggcc gatggatcac ttgaggtcaa ggagtttgag accagtctgg 660
 ccaacgtggt gaaaccccat ctctactaaa aaaaaaaaaa aaaaactcga 710

<210> 94
 <211> 1750
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1287)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1392)
 <223> n equals a,t,g, or c

<400> 94
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 gattcattaa tcatgtcttg cccacttttt tcaacaaacc tgacgtccta taatgagcta 180
 tacagtgtga ggcataatttc atagcaacgt tgggttgattg ccaaggagac tctgccaccg 240
 ttctggataa gctcatgttt ccccttttct tggctgctaa tagaagggca acttacagtg 300
 caggggtcaag agcaagaagc tgggggagta gaggtctatac atctagccta ataatagaga 360
 tctgaggtgg tyaccaggag actacgttct tttgattcca ttctcagca gcaaaagtac 420
 ttgagttcaa atgataaaac ttgaagttgt aggtctggaa gagtatcagc tcagtatatc 480
 cttccttgca taaatacaag ggaaaggcca aggaataatc agcattaacc tgccagggtcc 540
 aaggggtcttc tatecctgac ttcatctgag tcacaagatt tctctaataa gagaaacttt 600
 gctactctga ggaaaattat ccttatggg agcccccagt tcagaggtaa gaacagttct 660
 ttcacgtgga ggtccaaaat tctggacttc tagaaacaag tgaagtgtgc taaagtctcc 720
 tattttattgt ttctcttcca gtattgtgcc atcgattctt gcataaaatt ctggaatgct 780
 ggctcttcat ggcttttctc tgtaactctg tggatcaatgt catcagtatc gctgtctgct 840
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 ggagataagc tgtcttttggc agtccctgca tccaaggcta cagaacccat atcttttcga 960
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 aagagttcat ctaatccagt acccagaaca gcagagacac ccaccacct gagtgagctg 1140
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 tgttctgggc cttctcaata aatttcatca ccaatattgg caggaaaggg aacttcatgt 1560
 actgctggat ccaggttgat cacatacggg ggagtgctt gggcatgcag gtgtcctgtg 1620
 agcctctgta caaaagtggg tttcccgat cccgccatc ccaacaccaa cagacacact 1680
 ggggtgccgcg gacccccaga agcctggagc tcagcggcag ctgcggagcg cgccatcttc 1740
 ctcttgga

<210> 95
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (272)
 <223> n equals a,t,g, or c

<400> 95
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 ttccatgtga aaggctccag ataaaattct gccatccctc ctctcctcat gtccctcctgc 180
 tcagacccac cttcatgccc ctaaaccaat ctgcatcatg cctgtttcag agagtcattg 240
 gaagatgggg agtgcctcca ttgtcaccat tnccccacac ctctgcacac ttctgcccct 300
 tcccctctag acgccacaac ttcacagtct tactgttgta aatattcctg cacagttagt 360
 aatgatcaaa tgatcctgtg gtcagaggcc tctttggcag tgtcttctta cccttaagaa 420
 aggtcatgaa atccagaagg ggcaaccttt ccaggagagc tttggagtca tttctgtgtg 480
 agacactatt gcataatcct gtaagattgc ttttatattt aaggaatgat gttacttaac 540
 aaatgaacaa aaaaaattgc aaataaattt ttttaacaatg tttaaaaaaa aaaaaaaaaa 600
 actcga 606

<210> 96
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 96
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 tcttttttagc ctttctacaa ttttcaaaaag aaataattag atggtcgctg taacatttat 120
 atgaagaaaa tagtttgaga caacctaaat atgtcaatac trgawtaatt attaaaaata 180
 wtcattggccc tgtcatataa twgaataacta tggagtttgg aagaaagcat gatgtagaat 240
 atttaattat atgggaaaaat aatcagtaaa tcttttttaa acagaaggta aaactataca 300
 tagttcaata tagtaaagag ggccggggcac agtgctcacg cctgtaatcc cagcactttg 360
 ggaggccaag acaggtggat cacctgaggt tgggagttcc agactagcct ggccaacatg 420
 gctagtctct actaaaaata caaaaatcag ccaggcatgg tagcaggcac ctgtaatcca 480
 agctacttgg caggggaaggc aggagaatta cctgaaccca gaaggcagag gttgcgggtg 540
 gccaaaatca tgccactgca ctccagcctg ggcaccagag tgaaactctg tctcaaaaaa 600
 aaaaaaaaaa aactcga 617

<210> 97
 <211> 634
 <212> DNA
 <213> Homo sapiens

<400> 97
 gaattcggca cgagatccct tgaccctctg ggtaggcaca gggtaggtgc agcagggatg 60
 gggccagcgc tcatggtggc ctctctgtgc ctcggtggac ctgccccagc agtgggagcc 120
 ataacccctt ccccttctat tactttactc aggtgggcac cttccctctg aggggtgtctg 180
 ccctcagggg actcaaggac tctcagagac accagggcag cctggcccag aggagcaaca 240
 gccaggcccc caggaggaca gccatggaga gaactgagac ccacttacag tggggtctgg 300
 gaaccctgcc tgtacctggg gtycagtcct tcccaactcc ctcttctgtg cttcccccca 360
 gcaaagggtg ggtgaccact tctgtagcta agcacctgct ccccggtctt cttcaccag 420
 gacatctgtc tctctggagt gtctgtctgt ctgtccctcc ctctctgaac ctgcttccctc 480
 cgtgtccctt gctcctcgcc cctgggagcc camtcccmct ccttgcggtt cctccccatc 540
 tcaactcaagg ttctctgagg acattaaagt ggtggattca ccctgaaaaa aaaaaaaaaa 600
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcga 634

<210> 98
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 99							
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gctaaaagcca	ttgctgcact	ctgaggggct	tggcatggcc	gcagtggggg	ctggggactg		480
gcgcancccc	aggcgccctc	aagggaagca	gtgaggaaag	atgaggcatc	gtgcctcaca		540
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cctccaggat	gtctcccggg	ttcttctttc	aaaatttctt	ctccatctgc	tggcacctga		660
ggagtgtgag	caacctggac	cacaagccca	gtgggtcacc	ctgtgtgcgc	ccgccccagc		720
ccaggagtag	tcttacctct	gaggaaacttt	ctagatgcaa	agtgtgtata	tgtgtgtgtg		780
tgtgtgtgtg	tgtgtgtgtg	tgtgtttatg	tgtattttgt	aatatgtgag	ggaaatctac		840
cttcgttcat	gtataaataa	agctcctcgt	ggctccctta	aaaaaaaaaa	aaaaaaactc		900

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944

<210> 100
 <211> 2351
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (593)
 <223> n equals a,t,g, or c

<400> 100
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 agcaatggca gagtatattt cgtcaaccac aacacacgaa ttacacaatg ggaagacccc 120
 agaagtcaag gtcaattaaa tgaaaagccc ttacctgaag gttgggaaat gagattcaca 180
 gtggatggaa ttccatattt tgtggaccac aatagaagaa ctaccaccta tatagatccc 240
 cgcacaggaa aatctgccct agacaatgga cctcagatag cctatgttcg ggacttcaaa 300
 gcaaaggttc agtatttccg gttctggtgt cagcaactgg ccattgccaca gcacataaag 360
 attacagtga caagaaaaac attgtttgag grttcctttc aacagwtawt gagcttcagt 420
 ccccaagatc tgcgargacg tttgtgggtg atttttccag gagaagaagg tttagattat 480
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 gcaagactct tgcattctca caaagtagtt ttgtcaattt gaattcaggg aaaagttggg 2040
 cacagcctgc aaatgacttc atttgaagt ctgattgttt cagttgcctg acaaatacta 2100
 cactttacaa acaatgttaa cactgtgatt ccttcattgt ttaagaagt taacctaggg 2160
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 cctttagccc aggagttaaa gaccagcctg ggcaacatag ggagaccctg tctttttttt 2280
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 ccaatgcctt g 2351

<210> 101
 <211> 776

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (775)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (776)
<223> n equals a,t,g, or c

<400> 101
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tggatggggc aggaggggct gagggcctgt cccagacaat aaaggtgccc tcagcggatg 720
tgggccatgt caccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaann 776

<210> 102
<211> 1065
<212> DNA
<213> Homo sapiens

<400> 102
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tcagttagata gggtttctct tgtaatgaag tctctacaaa ttgggttagc tacatctctg 300
ctaaacagtt gatggggtat ctcttgatta gggggatccc taatatcccc agccccagcc 360
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cttgactgma gagcaggttc ctccactgcc ccacccctta gacaccatgm ccccatcagg 480
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gggaagccca tctaacagga ggacattggt ttgggggtgc acctcctgaa gaatgggtgg 600
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gaggacagag gcccccaagc tgatctggtg gtgcatccac gcacccccac cctgggactt 780
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gttgatcct ctttttctgt cccctgctgt ctcaaggccc caagttaaag ggttaaagcc 900
gctggagctt ggggagagaa cattgtggaa tgggaaggat catgcccttt gtggagtctt 960
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<210> 103
<211> 687
<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (664)

<223> n equals a,t,g, or c

<400> 103

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ctacacattc	aagttccccc	aggcaatgcy	gacagagagt	aacctcggag	ccaaggtgtt	240
cttcttcaaa	gcactgctat	taactggaga	cttttcccag	gctgggaata	agggccatca	300
tgtgtgggtc	actaaggatg	agctgggtga	ctatttgaaa	ccaaaatacc	tggcccaagt	360
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cagcaaacta	aattctgaga	aataaacgag	tctattacaa	aaaaaaaaaa	aaaaaaactcg	540
agggggggcc	cggtacccaa	tttcgcccta	tagtgagtcg	tattacaatt	cactggccgt	600
cgttttacaa	cgtcgtgact	ggggaaaccc	tggcgttacc	caacttaatc	gccttgnagn	660
aacntccctt	ttcggcagct	ggggtaaa				687

<210> 104

<211> 804

<212> DNA

<213> Homo sapiens

<400> 104

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ttaaagtggc	taacaattct	ttcctgggca	ggatgtaaaa	ttttcctctc	ctctaatacc	180
agtactgttg	agctcacatt	ctcccacttt	tcctcttttc	aggtgggttc	cgattttggg	240
attttatgaa	acctcagaag	cagacatgtt	aacttttctt	atctttttat	tccttgaggt	300

Lys Ala Asp Leu His Asp Glu Glu Asp Glu Gln Asp Ile Leu Leu Ala
35 40 45

Gln Asp Leu Glu Asp Met Trp Glu Gln Lys Phe Leu Gln Phe Lys Leu
50 55 60

Gly Ala Arg Ile Thr Glu Ala Asp Glu Lys Asn Asp Arg Thr Ser Leu
65 70 75 80

Asn Arg Lys Leu Asp Arg Asn Leu Val Leu Leu Val Arg Glu Lys Phe
85 90 95

Gly Asp Gln Asp Val Trp Ile Leu Pro Gln Ala Glu Trp Gln Pro Gly
100 105 110

Glu Thr Leu Arg Gly Thr Ala Glu Arg Thr Leu Ala Thr Leu Ser Glu
115 120 125

Asn Asn Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr
130 135 140

Thr Phe Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala
145 150 155 160

Lys Val Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln
165 170 175

Ala Gly Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly
180 185 190

Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser
195 200 205

Asp Leu
210

<210> 112
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals stop translation

<400> 112
Met Val Leu Thr Gly Val Arg Leu Met Lys Trp Arg Asp Glu Lys Thr
1 5 10 15

Phe Gly Thr Asp Cys Val Glu Ala Val Ile Leu Leu Val Thr Leu Leu
20 25 30

Trp Glu Lys Lys Glu Ala Phe His Val Gly Phe Ser Glu Glu Leu Gln
35 40 45

Tyr Phe Pro Glu Arg Ser Thr Glu Lys Leu Lys Val Phe Glu Trp Glu

Trp 112 110 PRT Homo sapiens SITE (110) Xaa equals stop translation

50

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60

Glu Glu Lys Gln Thr Thr Ala Thr Ser Glu Asp Asn Thr Lys His Leu
65 70 75 80

Val His Ser Val Tyr Thr Arg Gly Ala Val Asn Phe Leu Val Glu Lys
85 90 95

Glu Leu Ser Leu Glu Lys Tyr Leu Lys Lys Pro Leu Lys Xaa
100 105 110

<210> 113

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 113

Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn
1 5 10 15

Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser
20 25 30

Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser
35 40 45

Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr Xaa
50 55 60

<210> 114

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals stop translation

<400> 114

Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly
1 5 10 15

Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val
20 25 30

Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr
35 40 45

Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile
50 55 60

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Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser
65 70 75 80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys
85 90 95

Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg
100 105 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys
115 120 125

Glu Leu Tyr Thr Lys Asn Xaa
130 135

<210> 115

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 115

Met Arg Leu Gln Pro Asp Ile Cys Asn Leu Pro Thr Asn Pro Leu Ser
1 5 10 15

Leu Lys Leu Gly Leu Met Leu Leu Ser Leu Thr Leu Cys Leu Glu Lys
20 25 30

Thr Val Gln Gly Leu Lys Leu Gly Leu Cys Leu Phe Lys Leu Ser Phe
35 40 45

Ser Glu His Met Val Cys Pro Thr His Pro Gln Ser Ile Arg Trp Phe
50 55 60

Tyr Phe Met Phe Arg Leu Gln Cys Cys Xaa
65 70

<210> 116

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals stop translation

<400> 116

Met Ala Ala Gly Trp Val Arg Ser Trp Val Val Tyr Phe Leu Val Thr
1 5 10 15

001020"5594460

<213> Homo sapiens

<223> Xaa equals stop translation

Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
20 25 30

Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser Xaa
35 40

<213> Homo sapiens

Gln Val Arg Glu Arg Arg Ala His Ile Pro Gln Met Pro Met Asn Thr
20 25 30

<213> Homo sapiens

<223> Xaa equals stop translation

Phe Val Lys Gly Ser Leu Ile Ser Gly Leu Ser Glu Cys Asp Asn Thr
20 25 30

Ser Leu Lys Ala Ile Leu Gly Phe Ser Asn Tyr Ser Gln Xaa

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10

15

Phe Val Pro Gln Ile Thr Ser Ser Val Leu Ser Val Phe Cys Ile Val
 20 25 30

Phe Val Gln Asp Ser Leu Gly Phe Ile Ser Val Ile Ser Ala Phe Xaa
 35 40 45

<210> 124

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals stop translation

<400> 124

Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln
 1 5 10 15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
 20 25 30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn
 35 40 45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp
 50 55 60

Trp Pro Phe Xaa
 65

<210> 125

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 125

Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro
 1 5 10 15

Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu Phe His Ser Cys
 20 25 30

Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp Arg Glu Phe Tyr
 35 40 45

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Arg Asp Trp Trp Asn Ser Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp
 50 55 60

Asn Ile Pro Val His Lys Trp Cys Ile Arg Xaa
 65 70 75

<210> 126
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals stop translation

<400> 126
 Met Thr Lys Glu Asp Lys Ala Ser Ser Glu Ser Leu Arg Leu Ile Leu
 1 5 10 15

Val Val Phe Leu Gly Gly Cys Thr Phe Ser Glu Ile Ser Ala Leu Arg
 20 25 30

Phe Leu Gly Arg Glu Lys Gly Tyr Arg Phe Ile Phe Leu Thr Thr Ala
 35 40 45

Val Thr Asn Ser Ala Arg Leu Met Glu Ala Met Ser Glu Val Lys Ala
 50 55 60

Xaa
 65

<210> 127
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals stop translation

<400> 127
 Met Leu Leu Tyr Tyr Ser Val Met Thr Leu Ser Ser Leu Gly Gln Asp
 1 5 10 15

Pro Ser Leu Pro Thr Phe Ala Asp Arg His Ser Gly Met Trp Arg Gln
 20 25 30

Gln Cys Val Pro Xaa Thr Phe Leu Tyr Pro Pro Ala Val Gly Ser Thr

09774639.020404

<213> Homo sapiens

<400> 138

Met Phe Ile Phe Arg Asp Gly Leu Thr Met Phe Ser Arg Leu Val Ser
1 5 10 15

Asn Ser Cys Pro Gln Val Ile Leu Pro Ser Trp Pro Pro Glu Ser Leu
20 25 30

Gly Gly Ser Gly Arg Arg Ile Ser
35 40

<210> 139

<211> 47

<212> PRT

<213> Homo sapiens

<400> 139

Met Ser Trp Gly Tyr Phe Leu Gly Ala Ser Val Leu Leu Gln Asn Phe
1 5 10 15

Phe Ser Ser Tyr Leu Leu Thr Pro Ser Gly Lys Ile Ile Glu Glu Val
20 25 30

Thr Val Val Lys Ala Ser Val Asn Ser Ile Ser Lys Asn Phe Met
35 40 45

<210> 140

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals stop translation

<400> 140

Met Pro Gly Ile Phe Ile Leu Phe Met Thr Leu Ala Ser Thr Phe Asp
1 5 10 15

Gln Arg Leu Leu Asn Asp Ser Gln Pro Lys Asp His Ser Xaa
20 25 30

<210> 141

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 141

101020"020101

Met Ala Trp Val Thr Ser Tyr Gly Pro Leu Glu Asp Glu Ser Asn Pro
 1 5 10 15

Ser His Trp Phe Phe Phe Ala Asn Ser Phe Ala Phe Ile Phe Leu Ile
 20 25 30

Thr Ile Asn Ser Ile Phe His Val Leu Arg Ala Pro Gly Xaa
 35 40 45

<210> 142

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142

Met Asn Gln Arg Tyr Arg His Lys Ile Lys Asn Tyr Lys Thr Ile His
 1 5 10 15

Tyr Ala Tyr Asp Ser Cys Asn Asn Lys Lys Val Gln Gly Thr Ile Ile
 20 25 30

Ser Tyr Asn Arg Gly Ile Thr Ser His Arg Glu Gln Gln Tyr His Ile
 35 40 45

Ala Gly Ile Tyr Thr Arg Ile Leu Gly Asn Leu Val Trp Ile Tyr Thr
 50 55 60

Arg Ile Pro Gly Asp Pro Val Trp Leu Val Arg Gly Phe Pro Glu Lys
 65 70 75 80

Xaa Ile Ser Glu Ser
 85

<210> 143

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 143

Met Lys Asn Met His Val Tyr Leu Asn Tyr Asn Asn Phe Leu Leu Xaa
 1 5 10 15

Leu Leu Arg Leu Met Leu Asn Ile Cys Ser Phe Thr Gln Pro Leu Val
 20 25 30

Ala Glu Glu Glu Arg Pro Leu Thr Pro Leu

<211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 152
 Met Ser Ser Gly Leu Phe Leu Val Leu Phe Cys Phe Leu Cys Val Phe
 1 5 10 15

Val Gly Phe Phe Asp Phe His Cys Trp Cys Asp Ile Leu Val Lys Ser
 20 25 30

Ser Xaa

<210> 153
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (211)
 <223> Xaa equals stop translation

<400> 153
 Met Arg Cys Leu Thr Thr Pro Met Leu Leu Arg Ala Leu Ala Gln Ala
 1 5 10 15

Ala Arg Ala Gly Pro Pro Gly Gly Arg Ser Leu His Ser Ser Ala Val
 20 25 30

Ala Ala Thr Tyr Lys Tyr Val Asn Met Gln Asp Pro Glu Met Asp Met
 35 40 45

Lys Ser Val Thr Asp Arg Ala Ala Arg Thr Leu Leu Trp Thr Glu Leu
 50 55 60

Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe Arg Glu Pro Ala
 65 70 75 80

Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg Phe Arg
 85 90 95

Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg Cys Ile
 100 105 110

Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile Xaa Ile

101020304050607080901001101201301401501601701801902002102202302402502602702802903003103203303403503603703803904004104204304404504604704804905005105205305405505605705805906006106206306406506606706806907007107207307407507607707807908008108208308408508608708808909009109209309409509609709809901000101010201030104010501060107010801090110011101120113011401150116011701180119012001210122012301240125012601270128012901300131013201330134013501360137013801390140014101420143014401450146014701480149015001510152015301540155015601570158015901600161016201630164016501660167016801690170017101720173017401750176017701780179018001810182018301840185018601870188018901900191019201930194019501960197019801990200020102020203020402050206020702080209021002110212021302140215021602170218021902200221022202230224022502260227022802290230023102320233023402350236023702380239024002410242024302440245024602470248024902500251025202530254025502560257025802590260026102620263026402650266026702680269027002710272027302740275027602770278027902800281028202830284028502860287028802890290029102920293029402950296029702980299030003010302030303040305030603070308030903100311031203130314031503160317031803190320032103220323032403250326032703280329033003310332033303340335033603370338033903400341034203430344034503460347034803490350035103520353035403550356035703580359036003610362036303640365036603670368036903700371037203730374037503760377037803790380038103820383038403850386038703880389039003910392039303940395039603970398039904000401040204030404040504060407040804090410041104120413041404150416041704180419042004210422042304240425042604270428042904300431043204330434043504360437043804390440044104420443044404450446044704480449045004510452045304540455045604570458045904600461046204630464046504660467046804690470047104720473047404750476047704780479048004810482048304840485048604870488048904900491049204930494049504960497049804990500050105020503050405050506050705080509051005110512051305140515051605170518051905200521052205230524052505260527052805290530053105320533053405350536053705380539054005410542054305440545054605470548054905500551055205530554055505560557055805590560056105620563056405650566056705680569057005710572057305740575057605770578057905800581058205830584058505860587058805890590059105920593059405950596059705980599060006010602060306040605060606070608060906100611061206130614061506160617061806190620062106220623062406250626062706280629063006310632063306340635063606370638063906400641064206430644064506460647064806490650065106520653065406550656065706580659066006610662066306640665066606670668066906700671067206730674067506760677067806790680068106820683068406850686068706880689069006910692069306940695069606970698069907000701070207030704070507060707070807090710071107120713071407150716071707180719072007210722072307240725072607270728072907300731073207330734073507360737073807390740074107420743074407450746074707480749075007510752075307540755075607570758075907600761076207630764076507660767076807690770077107720773077407750776077707780779078007810782078307840785078607870788078907900791079207930794079507960797079807990800080108020803080408050806080708080809081008110812081308140815081608170818081908200821082208230824082508260827082808290830083108320833083408350836083708380839084008410842084308440845084608470848084908500851085208530854085508560857085808590860086108620863086408650866086708680869087008710872087308740875087608770878087908800881088208830884088508860887088808890890089108920893089408950896089708980899090009010902090309040905090609070908090909100911091209130914091509160917091809190920092109220923092409250926092709280929093009310932093309340935093609370938093909400941094209430944094509460947094809490950095109520953095409550956095709580959096009610962096309640965096609670968096909700971097209730974097509760977097809790980098109820983098409850986098709880989099009910992099309940995099609970998099901000

115 120 125

Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg Tyr Asp
130 135 140

Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu Ala Cys
145 150 155 160

Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser Thr Glu
165 170 175

Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn Asn Gly
180 185 190

Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr Leu
195 200 205

Tyr Arg Xaa
210

<210> 154
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals stop translation

<400> 154
Met Leu Pro Gly Leu Arg Arg Leu Leu Gln Ala Pro Ala Ser Ala Cys
1 5 10 15

Leu Leu Leu Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro
20 25 30

Met Leu Cys Thr Cys Tyr Ser Ser Pro Pro Thr Val Lys Leu Pro Gly
35 40 45

Gln Gln Leu Leu Leu Cys Ala Ala Val Pro Ala Thr Gln His Ser Ala
50 55 60

Thr Leu Pro Ala Glu Gln Pro His Pro His Ala Ala Xaa Arg His Leu
65 70 75 80

Trp Val Gln Pro Ala His Pro Val Ala Leu Leu Gln Gln Pro Leu His
85 90 95

His Leu Pro Gly His Phe Pro Pro Leu Ala Ser Pro Gly Gly Ser Gly
100 105 110

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<400> 165
Met Ala Arg Ile Thr Gly Pro Pro Glu Arg Asp Asp Pro Tyr Pro Val .
  1             5             10             15

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Phe Phe Met Ser Glu Tyr Glu Ala Thr Ile Tyr Xaa
65 70 75

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<220>
<221> SITE
<222> (38)
<223> Xaa equals stop translation
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Pro Leu Ser Arg Pro Arg Asp Gly Leu Ser Asn Ser Val Leu Ile Ile
20 25 30

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<210> 167
<211> 272
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 167

Met Ser Ala Leu Arg Arg Ser Gly Tyr Gly Pro Ser Asp Gly Pro Ser
 1 5 10 15

Tyr Gly Arg Tyr Tyr Gly Pro Gly Gly Gly Asp Val Pro Val His Pro
 20 25 30

Pro Pro Pro Leu Tyr Pro Leu Arg Pro Glu Pro Pro Gln Pro Pro Ile
 35 40 45

Ser Trp Arg Val Arg Gly Gly Gly Pro Ala Glu Thr Thr Trp Leu Gly
 50 55 60

Glu Gly Gly Gly Gly Asp Gly Tyr Tyr Pro Ser Gly Gly Ala Trp Pro
 65 70 75 80

Glu Pro Gly Arg Ala Gly Gly Ser His Gln Ser Leu Asn Ser Tyr Thr
 85 90 95

Asn Gly Ala Tyr Gly Pro Thr Tyr Pro Pro Gly Pro Gly Ala Asn Thr
 100 105 110

Ala Phe Ile Leu Arg Gly Leu Xaa Cys Thr Trp Leu Tyr Ser Asp Gln
 115 120 125

Leu Leu His Arg Ile Pro Ser Thr Tyr Arg Ser Ser Gly Asn Ser Pro
 130 135 140

Thr Pro Val Ser Arg Trp Ile Tyr Pro Gln Gln Asp Cys Gln Thr Glu
 145 150 155 160

Ala Xaa Pro Leu Arg Gly Lys Val Pro Gly Tyr Pro Pro Ser Xaa Xaa
 165 170 175

Pro Gly Met Xaa Leu Pro His Tyr Pro Tyr Gly Asp Gly Asn Arg Ser
 180 185 190

Val Pro Gln Ser Gly Pro Thr Val Arg Pro Gln Glu Asp Ala Trp Ala
 195 200 205

Ser Pro Gly Ala Tyr Gly Met Gly Gly Arg Tyr Pro Trp Pro Ser Ser
 210 215 220

Ala Pro Ser Ala Pro Pro Gly Asn Leu Tyr Met Thr Glu Val Leu His
 225 230 235 240

His Gly Leu Ala Val Ala Leu Pro Ser His Pro Leu His Pro Gln Ser
 245 250 255

Ser Ser Pro Arg Ile Leu His Thr Pro Ile Ala Asn Gln Ile Lys Ala
 260 265 270

167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

<210> 168
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals stop translation

<400> 168
 Met Ile Leu Thr Phe Cys Val Phe Leu Leu Phe Ser Phe His Asn Ala
 1 5 10 15

Ile Lys Ser Thr Pro Phe Leu Lys Phe Xaa
 20 25

<210> 169
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals stop translation

<400> 169
 Met Lys Leu Ile Tyr Tyr Cys His Leu Val Asp Ile Leu Leu Leu Gln
 1 5 10 15

Ala Ile Ile Lys Xaa Asn Ala Gly Met Xaa
 20 25

<210> 170
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 170
 Met Ile Glu Cys Pro Asp Trp Ala Arg Thr Ala Ser Leu Ala Lys Gln
 1 5 10 15

Arg Arg Lys Val Phe Lys Gln Met Leu Ser Ser Phe Leu His Phe His
 20 25 30

Phe Asn Ser Met Met Pro Leu Cys Pro Ser Asp Asp Ile Ser Pro Gly

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20

25

30

Phe Cys Thr Phe Thr Val Gln Val Pro Tyr Ser Pro Leu Ser Thr Trp
 35 40 45

Gln Arg Pro Lys Pro Val Lys Gly Arg Val Ser Thr Trp Pro Pro Ser
 50 55 60

Ser Met Ser Ser Ala Arg Ser Pro Gln Gly Pro
 65 70 75

<210> 173

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals stop translation

<400> 173

Met Ala Leu Leu Val Leu Thr Leu Tyr Cys Ile Leu Phe Leu Lys Ile
 1 5 10 15

Tyr Met Pro Val Pro Ser His Cys Glu Gln Phe Lys Gly Arg Asn Xaa
 20 25 30

<210> 174

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 174

Met Gln Asn Asp Gly Leu Lys Phe Met Glu Met Val Leu His Val Leu
 1 5 10 15

Gln Ala Ser Ile Gly Val Leu Leu Leu Met Val Asp Val Leu Glu His
 20 25 30

Phe Leu Ala Met Leu Ile Gly Asn Ala Gly Ala Pro Leu Pro Leu Leu
 35 40 45

Asp Val Leu Gly Lys Asp Val Ile Asp Val Ala Glu Arg Arg Glu Ser
 50 55 60

Lys Lys Xaa
 65

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<400> 181

Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe
 1 5 10 15

Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu
 20 25 30

Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu
 35 40 45

Cys Asp Ser Ile Ile Phe Xaa
 50 55

<210> 182

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 182

Met His Asn Leu Ile Ser Ser Ile Ile Ser Phe Leu Tyr Asn Phe Cys
 1 5 10 15

Ala Leu Pro Leu Ala Ser Pro Gln Phe Thr Asn Glu Glu Ser Ser Tyr
 20 25 30

Thr Ala Leu Arg Ser Cys Thr Arg Gly Gly Phe Glu Ser Arg Ser Leu
 35 40 45

Gly Thr Gln Lys Ser Cys Thr Phe Gln Gly Lys Gly Asp Tyr His Val
 50 55 60

Thr Ala Xaa
 65

<210> 183

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 183

Met Thr Thr Leu Phe Glu Thr Asp Arg Cys Leu Leu Phe Leu Val Met
 1 5 10 15

Ser Arg Phe Gly Phe Lys Ser Arg Leu Glu Ala Thr Ser Cys Lys Gln
 20 25 30

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 107020-0504
 057463-0504

Val Gln Glu Asn Glu Thr Arg Arg Val Gly Asp Thr Arg Met Lys Thr
35 40 45

Ser Val Arg Val Lys Thr Lys Gln Thr Met Tyr Ile Ile Cys Ile Trp
50 55 60

Glu Lys Lys Glu Arg Asn Tyr Leu Thr Xaa
65 70

<210> 184
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals stop translation

<400> 184
Met Val Ser Asp Ile Ser Gly Gln Lys Gln Ser Leu Glu Ala Val Lys
1 5 10 15

Glu His Leu Leu Phe Ile Trp Leu Pro Val Tyr Lys Ser Thr His Glu
20 25 30

Gly Pro Asn Ser Lys Ile Ser Asn Tyr Gln Val Leu Xaa
35 40 45

<210> 185
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals stop translation

<400> 185
Met Arg Pro Leu Leu Cys Ala Leu Thr Gly Leu Ala Leu Leu Arg Ala
1 5 10 15

Ala Gly Ser Leu Ala Ala Ala Glu Pro Phe Ser Pro Pro Arg Gly Asp
20 25 30

Ser Ala Gln Ser Thr Ala Cys Asp Arg His Met Ala Val Gln Arg Arg
35 40 45

Leu Asp Val Met Glu Glu Met Val Glu Lys Thr Val Asp His Leu Gly
50 55 60

Thr Glu Val Lys Gly Leu Leu Gly Leu Leu Glu Glu Leu Ala Trp Asn
65 70 75 80

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Leu Pro Pro Gly Pro Phe Ser Pro Ala Pro Asp Leu Leu Gly Asp Gly
 85 90 95

Phe Xaa

<210> 186
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

<400> 186
 Met Ala Ser Leu Leu Asp Asn Phe Ile Leu Asn Ile Ile Val Ile Phe
 1 5 10 15

Cys Ile Val Ile Asp Ser Tyr Leu Cys Gly Phe Met Tyr Phe Phe Val
 20 25 30

Ile Asp Ser Pro Val Pro Ala Cys Ser Pro Leu Gln Leu Ser Gln Thr
 35 40 45

Leu Ile Leu Gln Leu Gln Pro Thr Ala Arg Tyr Phe His Xaa
 50 55 60

<210> 187
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 187
 Met Cys Ile Phe Glu Cys Met Cys His Phe Phe Ile Asp Ile Ser Asn
 1 5 10 15

His Tyr Tyr Val Val Arg Phe Tyr Pro Glu Asp Ser Leu Pro Lys Thr
 20 25 30

Phe Ile Tyr Asp Pro Phe Lys Ala
 35 40

<210> 188
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 188
 Met Cys Glu Ser Asn Ser Thr Met Pro Gly Pro Ser Leu Glu Ser Pro
 1 5 10 15

Val Ser Thr Pro Ala Gly Lys Ile Gly Leu Ala Val Cys Tyr Asp Met
 20 25 30

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<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals stop translation

<400> 193
Met Gly Pro Ala Leu Met Val Ala Ser Leu Cys Leu Gly Gly Pro Ala
1 5 10 15
Pro Ala Val Gly Ala Ile Thr Pro Ser Pro Phe Ile Thr Ser Leu Arg
20 25 30
Trp Ala Pro Ser Pro Ala Gly Cys Leu Pro Ser Gly Asn Ser Arg Thr
35 40 45
Leu Arg Asp Thr Arg Ala Ala Trp Pro Arg Gly Ala Thr Ala Arg Pro
50 55 60
Pro Gly Gly Gln Pro Trp Arg Glu Leu Arg Pro Thr Tyr Ser Gly Val
65 70 75 80
Trp Glu Pro Cys Leu Tyr Leu Gly Xaa Ser Pro Ser Gln Leu Pro Pro
85 90 95
Cys Val Phe Pro Pro Ala Lys Val Gly Xaa
100 105

<210> 194
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals stop translation

<400> 194
Met Lys Val Gln Ser Phe Tyr Lys Thr Leu Ile Pro Leu Leu Thr Ile
1 5 10 15
Phe Met Met Val Ala Leu Val Asn Phe Thr Gly Lys Lys Asn Ser Gln
20 25 30
Asn Tyr Pro Ala Gly Asn Ile Ser Ser Leu Pro Lys Asp Lys Thr Val
35 40 45
Lys Thr Arg Leu Gly Xaa
50

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<210> 195
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals stop translation

<400> 195
 Met Arg Asp Pro Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile
 1 5 10 15

 Ser Ser Ile Leu Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val
 20 25 30

 Gln Trp Phe Met Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Gly Arg
 35 40 45

 Gly Ser Val Leu Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val
 50 55 60

 Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp
 65 70 75 80

 Leu Ser Leu Pro Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala
 85 90 95

 Leu Xaa

<210> 196
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals stop translation

<400> 196
 Met Gln Gly Ser Pro Leu Val Thr Ala Ile Tyr Lys Ile Phe Leu Leu
 1 5 10 15

 Ser Leu Leu Val Arg Gly Ile Cys Xaa
 20 25

<210> 197
 <211> 126
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals stop translation

<400> 197
 Met Ala Phe Asn Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala
 1 5 10 15
 Pro Pro Gln Pro Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala
 20 25 30
 Ala Gly Val Gly Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val
 35 40 45
 Ala Gly Ala Leu Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly
 50 55 60
 Phe Ser Ala Phe Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro
 65 70 75 80
 Trp Gln Glu Gly Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val
 85 90 95
 Phe Gly Ser Asp Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu
 100 105 110
 Glu Asp Phe Pro Asp Thr Gln Arg Ile Leu Thr Val Lys Xaa
 115 120 125

<210> 198
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals stop translation

<400> 198
 Met Leu Val Glu Lys Ile Leu Leu Ile Glu Cys Leu Ser Ser Glu Ser
 1 5 10 15
 Gln Leu Ile Gly Phe Leu Leu Xaa
 20

<210> 199
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals stop translation

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<400> 199

Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr Thr Phe
 1 5 10 15

Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala Lys Val
 20 25 30

Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln Ala Gly
 35 40 45

Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly Asp Tyr
 50 55 60

Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser Asp Leu
 65 70 75 80

Xaa

<210> 200

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals stop translation

<400> 200

Met Leu Thr Phe Leu Ile Phe Leu Phe Pro Glu Val Val Leu Gly Leu
 1 5 10 15

Leu Arg Asp Tyr Ser Ser Xaa
 20

<210> 201

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals stop translation

<400> 201

Met His Val Tyr Leu Asn Tyr Lys Xaa
 1 5

<210> 202

<211> 11

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 206
 Trp Gln Val Pro Ala Pro Val Ile Pro Gly Xaa Asp Pro Arg Val Arg
 1 5 10 15
 Gly Ala Arg Lys Arg Thr Leu Leu Gly Val Ala Gly Gly Trp Arg Arg
 20 25 30
 Phe Glu Arg Leu Trp Ala Gly Ser Leu Ser
 35 40

<210> 207
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 207
 Ser Arg Ser Leu Ala Leu Ala Ala Ala Pro Ser Ser Asn Gly Ser Pro
 1 5 10 15
 Trp Arg Leu Leu Gly Ala Leu Cys Leu Gln Arg Pro Pro Val Val Ser
 20 25 30
 Lys Pro Leu Thr Pro Leu Gln Glu Glu
 35 40

<210> 208
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 208
 Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys
 1 5 10 15
 Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Glu Gln Lys Ser
 20 25 30
 Glu Ser Pro Glu Glu Pro Glu Glu Val
 35 40

<210> 209
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 209
 Glu Glu Thr Glu Glu Glu Glu Lys Gly Pro Arg Ser Ser Lys Leu Glu
 1 5 10 15
 Glu Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His

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<210> 214
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 214
 Pro Thr Arg Gly Gly Ser Leu Cys Ala Cys Pro Gly Trp Gly Leu Pro
 1 5 10 15
 Ser Arg Leu Gly Leu Ser Leu Arg Phe Ser Ser Ser Pro Leu Arg Leu
 20 25 30
 Pro Ser Arg Arg Leu Arg Glu Asn Ser Ala Leu Arg Leu Ser Lys Ala
 35 40 45
 Pro Gly Lys
 50

<210> 215
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 215
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
 1 5 10

<210> 216
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 216
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
 1 5 10

<210> 217
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 217
 Gly Ala Ser Ser Arg Pro Arg Leu Glu Leu Gly Arg Leu Met Gly Pro
 1 5 10 15

Lys Gly Val Ala Val Asp Arg Asn Xaa His Ile Ile Val Val Asp Asn
 20 25 30

Lys Ser Cys Cys Val Phe Thr Phe Gln Pro Asn Gly
 35 40

<210> 221
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 221
 Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr Glu Leu Gly
 1 5 10 15

<210> 222
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 222
 Arg Pro Thr Arg Pro Pro Asp Gly Cys His Pro Ser Cys Cys Arg Met
 1 5 10 15

Glu Ala Ala Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr
 20 25 30

Glu Leu Gly Ile
 35

<210> 223
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 223
 Glu Cys Gln Glu Tyr Glu Ile Leu Glu His Cys Trp Trp Glu Cys Lys
 1 5 10 15

Leu Val Gln Pro Phe Trp Lys Ser Ser Cys Arg Ile Pro Ala Ala Arg
 20 25 30

Gly Ile His
 35

<210> 224
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 224
 His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Phe Trp Lys Ser
 1 5 10 15

<210> 225

Glu Gly Lys Gln Gln Glu Lys Pro Glu Gly Ala Glu Thr Xaa Ala Xaa
 100 105 110

Thr Thr Asn Gly Xaa Xaa Ser Asp Pro Ser Lys Glu Glu Ala Cys
 115 120 125

<210> 227
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 227
 Thr Tyr Glu Trp Ala Pro Pro
 1 5

<210> 228
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 228
 Pro Lys Glu Lys Gln Pro Val
 1 5

<210> 229
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 229
 Pro Arg Pro Ala Asn Leu Ala Ile Gln Pro Pro Leu Ser Pro Leu Arg
 1 5 10 15

Ala Leu Ala Pro Leu Pro Glu Lys Pro Gly Ala Val Pro Pro Pro Gln
 20 25 30

Lys Arg

<210> 230
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 230
 Ala His Ala Val Trp Arg Pro Gly Val Leu Pro Gly Leu Val Glu Leu
 1 5 10 15

Arg Val Cys His Leu Leu Leu Ala Glu Leu Glu His Pro Cys Ala Gln
 20 25 30

Val Val His Gln Val Gly Gly Val Cys Val Cys Val Met Trp Asn Met
 35 40 45

<210> 234
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 234
 Leu Tyr Tyr Phe Leu Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe
 1 5 10 15

Pro

<210> 235
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 235
 Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp
 1 5 10 15

Met Val Pro Thr Ile Gln Asn Ser Met Lys
 20 25

<210> 236
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 236
 Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile Pro Val His Lys Trp Cys
 1 5 10 15

Ile Arg

<210> 237
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 237
 Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys
 1 5 10 15

Leu Ala Val Pro Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu
 20 25 30

Phe His Ser Cys Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp
 35 40 45

Arg Glu Phe Tyr Arg Asp Trp Trp Asn Ser Glu Ser

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50

55

60

<210> 238
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 238
 Arg His Phe Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met
 1 5 10 15
 Ala Arg Thr Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu
 20 25 30
 Val Ser Val Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met
 35 40 45

<210> 239
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 239
 Met Ala Gln Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly
 1 5 10 15
 Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro
 20 25 30
 Ile Ala Val Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr
 35 40 45

<210> 240
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 240
 Ser Gly Xaa Trp Gln Gly Leu Asp Glu Val Val Arg Leu Leu Asn Xaa
 1 5 10 15
 Ser Asp Phe Ala Phe Thr Asp

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Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys
85 90 95

Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg
100 105 110

His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg
115 120 125

Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val
130 135 140

Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr
145 150 155 160

Tyr Met Glu Met Phe Gln Arg Ala Gln Val Cys Gly Gly Gly Gln Arg
165 170 175

Thr Thr Thr Asp Ala Lys Ser Pro Leu Leu Gln Glu Ser Leu Phe Ala
180 185 190

Thr Gly

<210> 243
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 243
Ile Cys Val Lys Thr Phe Pro Pro Leu Ala Leu Gln Val Arg Met Ala
1 5 10 15

Ala Xaa Glu His Arg His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu
20 25 30

Thr Ala Glu Thr Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro Pro

35

40

45

Thr Gln Gln His Ser Ile Xaa Asp Asn Ser Leu Ser Leu Lys Thr Pro
 50 55 60

Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu
 65 70 75 80

Lys Thr Pro Xaa Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser Ala Pro
 85 90 95

Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Pro Glu Cys Val Cys Ser
 100 105 110

Leu Pro Phe His Pro Gln Leu His Pro Gln Arg Met Ile Ile Ser Arg
 115 120 125

His Leu Pro Ser Val Ser Ala His Ser Pro Ser Thr Leu Ser Gly
 130 135 140

<210> 244

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 244

Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys Ile Val
 1 5 10 15

Leu Glu Asp Ile
 20

<210> 245

<211> 16

<212> PRT

<213> Homo sapiens

<400> 245

Leu Ser Leu Lys Thr Pro Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro
 1 5 10 15

<210> 246

<211> 27

<212> PRT

<213> Homo sapiens

<400> 246

<400> 248

Leu Lys Glu Arg Ala Leu Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly
 1 5 10 15

Pro Glu Arg Leu Val
 20

<210> 249

<211> 137

<212> PRT

<213> Homo sapiens

<400> 249

Met Pro Thr Pro Ser Met Arg Ala Asn Arg Met Pro Pro Ile Ile Ala
 1 5 10 15

Glu Pro Thr Met Ala Ser Gly Pro Leu Arg Ala Ala Ser Thr Ala Pro
 20 25 30

Val Asn Ala Pro Leu Val Ile Glu Phe Gln Gly Ser Ser Leu Pro Arg
 35 40 45

Ser Arg Thr Arg Pro Gln Ser Met Val Glu Asn Arg Pro Pro His Thr
 50 55 60

Ala Lys Leu Pro Pro Ile Trp Gly Ala Arg Ile Leu Thr Ala Leu Ala
 65 70 75 80

Leu Pro Leu Asn Arg Cys Arg Ile Pro Thr Gly Ala Leu Arg Lys Pro
 85 90 95

Leu Met Ala Trp Lys Thr Pro Pro Pro Met Thr Pro Ile Val Lys Ala
 100 105 110

Pro Pro Gln Ser Ser Thr Ile Arg His Gly Gln Gly Ser Arg Ala Tyr
 115 120 125

Ser Gly Arg Val Gly Gly Arg Val Gly
 130 135

<210> 250

<211> 25

<212> PRT

<213> Homo sapiens

<400> 250

Gly Ala Arg Ile Leu Thr Ala Leu Ala Leu Pro Leu Asn Arg Cys Arg
 1 5 10 15

Ile Pro Thr Gly Ala Leu Arg Lys Pro
 20 25

<210> 251

<211> 38

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 287
Ala Pro Gln Lys Phe Pro Xaa Gly Phe Phe Phe Phe Phe Leu Phe Ser
1 5 10 15

Arg Arg Lys Lys Gln Cys Ser Lys Val Val Gln Asn Thr Gly Ala Gly
20 25 30

Ala Ile Gln Thr Gln Val
35

<211> 38

<212> PRT

<213> Homo sapiens

<400> 268

<400> 288
Gln Leu Leu Thr Ser Pro Thr Phe Ser Thr Val Leu Ser Asn Tyr Thr
1 5 10 15

Cys Gln Ala Pro Ser Gln Trp Thr Asp Trp Gln Ala Leu Leu Pro Thr
20 25 30

Gly Ile Gln Thr Glu His
35

<210> 269

<211> 36

<212> PRT

<213> Homo sapiens

<400> 269

His Gln Gly Trp Asp Lys Gln Lys Gln Cys Lys Arg Lys Cys Glu His
1 5 10 15

Glu His Ala Pro Leu His His Asn Leu Trp Lys Gln Ser Gly Lys Thr
20 25 30

Arg Leu Gly Asp
35

<210> 270

<211> 27

<212> PRT

<213> Homo sapiens

<400> 270

Lys His Val Ile Phe Phe Met Phe Ile Ser Asn Leu Phe Leu Ile Leu

1

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15

Cys Phe Leu Phe Arg Pro Thr Lys Thr Thr Val
20 25

<210> 271
<211> 11
<212> PRT
<213> Homo sapiens

<400> 271
Asp Lys Leu Leu Ser Phe His Leu Val Ser Ile
1 5 10

<210> 272
<211> 14
<212> PRT
<213> Homo sapiens

<400> 272
Lys Trp Lys Gly Asp Leu His Cys Ile Leu Gly Leu Leu Ala
1 5 10

<210> 273
<211> 10
<212> PRT
<213> Homo sapiens

<400> 273
Leu Ala Pro Ser Ser Val Gly Ser Ala Ser
1 5 10

<210> 274
<211> 39
<212> PRT
<213> Homo sapiens

<400> 274
Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala
1 5 10 15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His
20 25 30

His Gln Ile Lys Thr Ser Pro
35

<210> 275
<211> 38
<212> PRT
<213> Homo sapiens

<400> 275

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<400> 279

Glu Arg Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile
50 55 60

<213> Homo sapiens

Asn Phe Glu Phe Ser Thr Glu Thr His
50 55

<213> Homo sapiens

Leu Tyr Arg

<213> Homo sapiens

Glu Pro Arg Gly Val Pro Ala Val His Pro Ala Gly Ser Gly Ser Glu

20

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Trp Glu Arg Pro Pro Pro Ala Ala Pro Ser Pro Glu His Arg Asp Lys
 35 40 45

<210> 283

<211> 24

<212> PRT

<213> Homo sapiens

<400> 283

Asp Ser Arg Ala Leu Pro Glu Pro Arg Gly Val Pro Ala Val His Pro
 1 5 10 15

Ala Gly Ser Gly Ser Glu Trp Glu
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<210> 284

<211> 7

<212> PRT

<213> Homo sapiens

<400> 284

Glu Phe Gly Thr Ser Trp Val
 1 5

<210> 285

<211> 78

<212> PRT

<213> Homo sapiens

<400> 285

Thr Leu His Pro Pro Gln Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala
 1 5 10 15

Gly Asp Pro Ala Pro Leu Pro Ser Thr Ser Ser Val Gly Ser Ser Ser
 20 25 30

Gly Gly Ala Cys Gly Val Pro Cys Ala His Trp Arg Val Cys Gly Leu
 35 40 45

Ile His Leu Val Ala Leu Arg Gly Gly Ile Arg Ala Pro Val Ser Pro
 50 55 60

Pro Phe Met Phe Asn Leu His His Asn Leu Leu Asn Leu Arg
 65 70 75

<210> 286

<211> 21

<212> PRT

<213> Homo sapiens



Pro Ser Thr Ser Ser
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<211> 15

<212> PRT

<213> Homo sapiens

Arg Val Cys Gly Leu Ile His Leu Val Ala Leu Arg Gly Gly Ile
1 5 10 15

<211> 79

<212> PRT

<213> Homo sapiens

Gln Gly Tyr Ser Thr Lys Pro Arg Leu Met Val Pro Leu Lys Met Asp
1 5 10 15

Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val Tyr
20 25 30

Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly
35 40 45

Val Gly Thr Ser Ser Ser Glu Ser Thr His Pro Glu Gly Pro Glu Glu
50 55 60

Glu Glu Asn Pro Gln Gln Ser Glu Glu Leu Leu Glu Val Ser Asn
65 70 75

<210> 289

<211> 30

<212> PRT

<213> Homo sapiens

<400> 289

Asp Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val
1 5 10 15

Tyr Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg
20 25 30

<210> 290

<211> 25

<212> PRT

<213> Homo sapiens

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<400> 290

Leu Met Val Pro Leu Lys Met Asp Ser Ile Thr Val His Ile Arg Ser
 1 5 10 15

Thr Asn Gly Pro Ile Asp Val Tyr Leu
 20 25

<210> 291

<211> 26

<212> PRT

<213> Homo sapiens

<400> 291

Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly Val Gly Thr Ser Ser
 1 5 10 15

Ser Glu Ser Thr His Pro Glu Gly Pro Glu
 20 25

<210> 292

<211> 19

<212> PRT

<213> Homo sapiens

<400> 292

Arg Pro Thr Arg Pro Ser Ile Leu Gly Leu Tyr Val Asp Leu Tyr Val
 1 5 10 15

Phe Cys Ile

<210> 293

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 293

Cys Gly Ala Cys Thr Xaa Leu Ser Leu Ser Asp Ser Arg Arg Cys Gly
 1 5 10 15

Cys Cys Lys Gly Ser Ser Leu Arg His Thr Ala Val Ala
 20 25

<210> 294

<211> 7

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 298

Gln Lys Glu Trp Lys Leu Phe Leu Arg Gly Arg Gln Asn Glu Lys Ser
 1 5 10 15

Gly Tyr Gln Lys Leu Leu Glu Leu Ile Leu Leu Asp Gln Thr Val Arg
 20 25 30

Val Val Thr Ala Gly Ser Ala Ile Leu Gln Lys Cys His Phe Tyr Glu
 35 40 45

Val Leu Ser Glu Ile Lys Arg Leu Gly Asp His Leu Ala Glu Lys Thr
 50 55 60

Ser Xaa Leu Pro Asn His Ser Glu Pro Asp His Asp Thr Asp Ala Gly
 65 70 75 80

Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu Ala Ser Met
 85 90 95

Asp Met Asp Leu Leu Glu Ser Ser Asn Ile Ser Glu Gly Glu Ile Glu
 100 105 110

Arg Leu Ile Asn Leu Leu Glu Glu Val Phe His Leu Met Glu Thr Ala
 115 120 125

Pro His Thr Met Ile Gln Gln Pro Val Lys Ser Phe Pro Thr
 130 135 140

<210> 299

<211> 27

<212> PRT

<213> Homo sapiens

<400> 299

Leu Arg Gly Arg Gln Asn Glu Lys Ser Gly Tyr Gln Lys Leu Leu Glu
 1 5 10 15

Leu Ile Leu Leu Asp Gln Thr Val Arg Val Val
 20 25

<210> 300

<211> 26

<212> PRT

<213> Homo sapiens

<400> 300

Ile Leu Gln Lys Cys His Phe Tyr Glu Val Leu Ser Glu Ile Lys Arg
 1 5 10 15

Leu Gly Asp His Leu Ala Glu Lys Thr Ser
 20 25

125
 110
 95
 80
 65
 50
 35
 20
 15
 10
 5
 1

Gly Thr Val Asn Asn Asp Asp Ser Asp Leu Leu Asp Ser Gln Val Gln
20 25 30

<210> 311

<220>
<221> SITE

Ser Ala Arg Ala Val Leu Leu Ile Trp Gly His Gly Ser Ser Gly Lys
50 55 60


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<210> 324
<211> 48
<212> PRT
<213> Homo sapiens
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Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
20 25 30

Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
35 40 45

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<210> 325
<211> 9
<212> PRT
<213> Homo sapiens
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<400> 325
Leu Asn Ser Ser Asp Cys Gln Leu Ala
1 5

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<210> 326
<211> 33
<212> PRT
<213> Homo sapiens
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<400> 326
Thr Pro His Asn Leu Ser Ala Arg Arg Leu Ser Gly Thr Met Tyr Gly
  1             5             10             15
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Phe Phe Ala Leu Gln Leu Thr Val Leu Leu Val His Tyr Phe Phe Leu
20 25 30

Ile

<210> 327
<211> 40

[illegible]

Gln Ala Phe His Leu Cys Pro Gln Val Ile His Gly Leu Leu Tyr His
65 70 75 80

<213> Homo sapiens

Phe Pro

<213> Homo sapiens

Gly Gln

<213> Homo sapiens

Ala Arg Leu Val
65

<213> Homo sapiens

His Leu Cys Asp Val Glu Ile Pro Gly Gln Gly
20 25

<210> 337
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 337
 Arg Arg Asp Ser Arg Ala Gly Ala
 1 5

<210> 338
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 338
 Leu Ser Ala Gly Asn His Asp Thr
 1 5

<210> 339
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 339
 Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln
 1 5 10 15
 Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser
 20 25 30
 Trp Leu Ser Ser Val Thr Leu Trp Ser
 35 40

<210> 340
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 340
 Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val
 1 5 10

<210> 341
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 341
 Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu
 1 5 10

<210> 342
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 342
 Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val Glu Trp Met
 1 5 10 15

Gln Asp Phe

<210> 343
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 343
 Ala Phe Gln Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val
 1 5 10

<210> 344
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 344
 Asn Leu Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser
 1 5 10 15

Leu Arg Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu
 20 25 30

Leu Phe Val Gln Val Thr Ser Ala Ala
 35 40

<210> 345
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 345
 Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser
 1 5 10

<210> 346
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 346
 Lys Asp Met Gly Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser
 1 5 10 15

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Ile Xaa Gly Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val
100 105 110

<213> Homo sapiens


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<400> 357
Gly Thr Leu Pro Val Pro Gly Val Gln Ser Leu Pro Thr Pro Ser Leu
  1              5              10              15
Cys Leu Pro Pro Ser Lys Gly Gly Val Thr Thr Ser Val Ala Lys His
      20              25              30
Leu Leu Pro Gly Ser Leu His Pro Gly His Leu Ser Leu
    35              40              45

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<400> 360
Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala
1 5 10 15

<400> 365

Lys Arg Ile Leu Asn Lys Pro Val Gly Leu Lys Asp Leu
 1 5 10

<210> 366

<211> 20

<212> PRT

<213> Homo sapiens

<400> 366

Gly Pro Gln Ile Ala Tyr Val Arg Asp Phe Lys Ala Lys Val Gln Tyr
 1 5 10 15

Phe Arg Phe Trp
 20

<210> 367

<211> 21

<212> PRT

<213> Homo sapiens

<400> 367

Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp Glu Asp Pro Arg
 1 5 10 15

Ser Gln Gly Gln Leu
 20

<210> 368

<211> 23

<212> PRT

<213> Homo sapiens

<400> 368

Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys Phe Ile Asp
 1 5 10 15

Thr Gly Phe Ser Leu Pro Phe
 20

<210> 369

<211> 18

<212> PRT

<213> Homo sapiens

<400> 369

Lys Gln Ile Met Trp Phe Trp Gln Phe Val Lys Glu Ile Asp Asn Glu
 1 5 10 15

Lys Arg

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<210> 370
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 370
 Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys
 1 5 10 15

Glu

<210> 371
 <211> 474
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<220>
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 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (428)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 371
 Thr His Ala Ser Ala Thr Arg Pro Gly Pro Leu Pro Pro Gly Trp Glu
 1 5 10 15

Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr

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Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu
35 40 45

Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile
50 55 60

Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Thr Tyr Ile Asp Pro
65 70 75 80

Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val
85 90 95

Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln
100 105 110

Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu
115 120 125

Phe Glu Xaa Ser Phe Gln Gln Xaa Xaa Ser Phe Ser Pro Gln Asp Leu
130 135 140

Arg Xaa Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr
145 150 155 160

Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu
165 170 175

Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys
180 185 190

Leu Gln Ile Asn Pro Xaa Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr
195 200 205

Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys
210 215 220

Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Xaa Lys Arg Ile Leu Asn
225 230 235 240

Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr
245 250 255

Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu
260 265 270

Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser
275 280 285

His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn
290 295 300

Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly
305 310 315 320

Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu
325 330 335

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Pro Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu
 340 345 350
 Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His Ala
 355 360 365
 Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp Phe Trp
 370 375 380
 Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln
 385 390 395 400
 Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu
 405 410 415
 Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Xaa Lys Val Gly Lys
 420 425 430
 Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu
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 Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys Glu Lys Leu Leu Phe Ala
 450 455 460
 Ile Glu Glu Thr Glu Gly Phe Gly Gln Glu
 465 470

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